

**BIB 表示形式**

AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAIT USP Provisional application

## BIB.M 表示形式

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
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AI EP 2004-8854 A 20040414  
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PRAI US 2003-463324P P 20030417 (USP, 20070830)  
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REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.

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### MEMBER 1

AN 18276957 INPADOCDB UP 20070726 UW 200730 Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
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PA TECHTRONIC IND CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI CN 1550199 A 20041201  
PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.  
DAV 20041201 unexamined-printed-without-grant  
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AIT CNA Patent application  
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MEMBER 3  
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PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 20040205915 A1 20041021  
PIT USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]  
DAV 20041021 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI US 2003-728093 A 20031205  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)  
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PRAIT USA Patent application  
USP Provisional application

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PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 6912753 B2 20050705 English  
PIT USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT AS SECOND  
PUBLICATION [FROM 2001 ONWARDS]  
DAV 20050705 printed-with-grant  
STA GRANTED  
AI US 2003-728093 A 20031205  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)  
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PRAIT USA Patent application  
USP Provisional application  
REC 11. THERE ARE 11 CITED REFERENCES (11 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.

2 priorities, 3 applications, 5 publications

**IBIB 表示形式**

ACCESSION NUMBER: 24159834 INPADOCDB Full-text  
ED 20070830 EW 200735 UP 20070830 UW 200735

TITLE: Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.

TITLE LANGUAGE: German; English; French

INVENTOR(S):  
NON-STANDARD.: SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
STANDARDIZED: SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI  
KEVIN, HK

PATENT ASSIGNEE(S):  
NON-STANDARD.: TECHTRONIC INDUSTRIES CO., LTD.  
STANDARDIZED: TECHTRONIC IND CO LTD, CN

PATENT INFORMATION:

| NUMBER     | KIND | DATE             |
|------------|------|------------------|
| EP 1468638 | A3   | 20070829 English |

PATENT INFO. TYPE: EPA3 SEARCH REPORT

DATE OF AVAILABILITY: 20070829 supplemental-srep-reference

PATENT STATUS: PRE-GRANT PUBLICATION

DESIGNATED STATES:  
R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI  
LU MC NL PL PT RO SE SI SK TR

EXTENSION STATES:  
R: AL HR LT LV MK

APPLICATION INFO.: EP 2004-8854 A 20040414

APPL. INFO. TYPE: EPA Patent application

PRIORITY APPL. INFO.: US 2003-463324P P 20030417 (USP, 20070830)

PRIO. APPL. INFO. TYPE: USP Provisional application

IBIB.M 表示形式

ACCESSION NUMBER: 24159834 INPADOCDB Full-text  
UP 20080417 UW 200816

TITLE: Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.

TITLE LANGUAGE: German; English; French

INVENTOR(S):  
NON-STANDARD.: SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
STANDARDIZED: SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI  
KEVIN, HK

PATENT ASSIGNEE(S):  
NON-STANDARD.: TECHTRONIC INDUSTRIES CO., LTD.  
STANDARDIZED: TECHTRONIC IND CO LTD, CN

PATENT INFORMATION:

| NUMBER     | KIND | DATE             |
|------------|------|------------------|
| EP 1468638 | A2   | 20041020 English |

PATENT INFO. TYPE: EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT

DATE OF AVAILABILITY: 20041020 unexamined-printed-without-grant

PATENT STATUS: PRE-GRANT PUBLICATION

DESIGNATED STATES:  
R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI  
LU MC NL PL PT RO SE SI SK TR

EXTENSION STATES: R: AL HR LT LV MK

APPLICATION INFO.: EP 2004-8854 A 20040414

APPL. INFO. TYPE: EPA Patent application

PRIORITY APPL. INFO.: US 2003-463324P P 20030417 (USP, 20070830)

PRIO. APPL. INFO. TYPE: USP Provisional application

CITED REFERENCE COUNT: 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON  
PATENT) AVAILABLE FOR THIS RECORD. ALL CITATIONS ARE  
AVAILABLE IN THE RE FORMAT.

ACCESSION NUMBER: 24159834 INPADOCDB Full-text  
ED 20070830 EW 200735 UP 20070830 UW 200735

TITLE: Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.

TITLE LANGUAGE: German; English; French

INVENTOR(S):  
NON-STANDARD.: SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
STANDARDIZED: SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI  
KEVIN, HK

PATENT ASSIGNEE(S):  
NON-STANDARD.: TECHTRONIC INDUSTRIES CO., LTD.  
STANDARDIZED: TECHTRONIC IND CO LTD, CN

PATENT INFORMATION:

| NUMBER     | KIND | DATE             |
|------------|------|------------------|
| EP 1468638 | A3   | 20070829 English |

PATENT INFO. TYPE: EPA3 SEARCH REPORT

DATE OF AVAILABILITY: 20070829 supplemental-srep-reference

PATENT STATUS: PRE-GRANT PUBLICATION

DESIGNATED STATES:  
R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI  
LU MC NL PL PT RO SE SI SK TR

EXTENSION STATES: R: AL HR LT LV MK

APPLICATION INFO.: EP 2004-8854 A 20040414

APPL. INFO. TYPE: EPA Patent application

PRIORITY APPL. INFO.: US 2003-463324P P 20030417 (USP, 20070830)

PRIO. APPL. INFO. TYPE: USP Provisional application

IBIB.F 表示形式

MEMBER 1

ACCESSION NUMBER: 18276957 INPADOCDB Full-text  
UP 20070726 UW 200730

TITLE: Manual floor sweeper.  
TITLE LANGUAGE: English

INVENTOR(S):  
NON-STANDARD.: SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
STANDARDIZED: YIN SIN TIMMY HOK, HK; FAI HUI CHIU, HK; KAM HOI MA KEVIN, HK

PATENT ASSIGNEE(S):  
NON-STANDARD.: TECHTRONIC IND CO., LTD.  
STANDARDIZED: TECHTRONIC IND CO LTD, HK

PATENT INFORMATION:

| NUMBER     | KIND | DATE     |
|------------|------|----------|
| CN 1550199 | A    | 20041201 |

PATENT INFO. TYPE: CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.  
DATE OF AVAILABILITY: 20041201 unexamined-printed-without-grant  
PATENT STATUS: PRE-GRANT PUBLICATION  
APPLICATION INFO.: CN 2004-10035181 A 20040414  
APPL. INFO. TYPE: CNA Patent application  
PRIORITY APPL. INFO.: US 2003-463324P P 20030417 (USP)  
PRIO. APPL. INFO. TYPE: USP Provisional application

MEMBER 2

ACCESSION NUMBER: 24159834 INPADOCDB Full-text  
UP 20080417 UW 200816

TITLE: Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TITLE LANGUAGE: German; English; French

INVENTOR(S):  
NON-STANDARD.: SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
STANDARDIZED: SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK

PATENT ASSIGNEE(S):  
NON-STANDARD.: TECHTRONIC INDUSTRIES CO., LTD.  
STANDARDIZED: TECHTRONIC IND CO LTD, CN

PATENT INFORMATION:

| NUMBER     | KIND | DATE             |
|------------|------|------------------|
| EP 1468638 | A2   | 20041020 English |

PATENT INFO. TYPE: EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DATE OF AVAILABILITY: 20041020 unexamined-printed-without-grant  
PATENT STATUS: PRE-GRANT PUBLICATION  
DESIGNATED STATES:  
R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

EXTENSION STATES: R: AL HR LT LV MK

APPLICATION INFO.: EP 2004-8854 A 20040414  
APPL. INFO. TYPE: EPA Patent application  
PRIORITY APPL. INFO.: US 2003-463324P P 20030417 (USP)  
PRIO. APPL. INFO. TYPE: USP Provisional application  
CITED REFERENCE COUNT: 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.

ACCESSION NUMBER: 24159834 INPADOCDB Full-text  
ED 20070830 EW 200735 UP 20070830 UW 200735  
TITLE: Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TITLE LANGUAGE: German; English; French  
INVENTOR(S):  
NON-STANDARD.: SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
STANDARDIZED: SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI  
KEVIN, HK  
PATENT ASSIGNEE(S):  
NON-STANDARD.: TECHTRONIC INDUSTRIES CO., LTD.  
STANDARDIZED: TECHTRONIC IND CO LTD, CN  
PATENT INFORMATION:

| NUMBER     | KIND | DATE             |
|------------|------|------------------|
| EP 1468638 | A3   | 20070829 English |

PATENT INFO. TYPE: EPA3 SEARCH REPORT  
DATE OF AVAILABILITY: 20070829 supplemental-srep-reference  
PATENT STATUS: PRE-GRANT PUBLICATION  
DESIGNATED STATES:  
R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI  
LU MC NL PL PT RO SE SI SK TR  
EXTENSION STATES: R: AL HR LT LV MK  
APPLICATION INFO.: EP 2004-8854 A 20040414  
APPL. INFO. TYPE: EPA Patent application  
PRIORITY APPL. INFO.: US 2003-463324P P 20030417 (USP)  
PRIO. APPL. INFO. TYPE: USP Provisional application

MEMBER 3

ACCESSION NUMBER: 49268576 INPADOCDB Full-text  
TITLE: Manual floor sweeper.  
TITLE LANGUAGE: English  
INVENTOR(S):  
NON-STANDARD.: SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
STANDARDIZED: SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; HOI MA KEVIN  
KAM, HK  
PATENT ASSIGNEE(S):  
NON-STANDARD.: TECHTRONIC INDUSTRIES CO., LTD.  
STANDARDIZED: TECHTRONIC IND CO LTD, HK  
PATENT INFORMATION:

| NUMBER         | KIND | DATE     |
|----------------|------|----------|
| US 20040205915 | A1   | 20041021 |

PATENT INFO. TYPE: USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001  
ONWARDS]  
DATE OF AVAILABILITY: 20041021 unexamined-printed-without-grant  
PATENT STATUS: PRE-GRANT PUBLICATION  
APPLICATION INFO.: US 2003-728093 A 20031205  
APPL. INFO. TYPE: USA Patent application  
PRIORITY APPL. INFO.: US 2003-728093 A 20031205 (USA)  
US 2003-463324P P 20030417 (USP)  
PRIO. APPL. INFO. TYPE: USA Patent application  
USP Provisional application

ACCESSION NUMBER: 49268576 INPADOCDB Full-text  
TITLE: Manual floor sweeper.  
TITLE LANGUAGE: English  
INVENTOR(S):  
NON-STANDARD.: SIN TIMMY HOK YIN; HUI CHIU FAI; MA KEVIN KAM HOI  
STANDARDIZED: SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; MA KEVIN KAM  
HOI, HK

PATENT ASSIGNEE(S) :  
NON-STANDARD. :       TECHTRONIC INDUSTRIES CO., LTD.  
STANDARDIZED:        TECHTRONIC IND CO LTD, HK

PATENT INFORMATION:

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|                         |  |             |                |
|-------------------------|--|-------------|----------------|
|                         | US 6912753   | B2 20050705 | English        |
| PATENT INFO. TYPE:      | USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT<br>AS SECOND PUBLICATION [FROM 2001 ONWARDS]  |             |                |
| DATE OF AVAILABILITY:   | 20050705 printed-with-grant  |             |                |
| PATENT STATUS:          | GRANTED  |             |                |
| APPLICATION INFO. :     | US 2003-728093   | A           | 20031205       |
| APPL. INFO. TYPE:       | USA Patent application   |             |                |
| PRIORITY APPL. INFO. :  | US 2003-728093   | A           | 20031205 (USA) |
|                         | US 2003-463324P  | P           | 20030417 (USP) |
| PRIO. APPL. INFO. TYPE: | USA Patent application   |             |                |
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| CITED REFERENCE COUNT:  | 11. THERE ARE 11 CITED REFERENCES (11 PATENT, 0 NON<br>PATENT) AVAILABLE FOR THIS RECORD. ALL CITATIONS ARE<br>AVAILABLE IN THE RE FORMAT. |             |                |

2 priorities, 3 applications, 5 publications

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PRAIT USP Provisional application  
IPC1 A47L0011-22 [I, A ]; A47L0011-32 [I, A ]; A47L0011-00 [I, C\*]  
EPC A47L0011-32

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IC.V 7  
ICM A47L011-22  
IPC1 A47L0011-22 [I, A ]; A47L0011-32 [I, A ]; A47L0011-00 [I, C\*]  
EPC A47L0011-32

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PRAIT USP Provisional application  
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EPC A47L0011-32

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PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.  
DAV 20041201 unexamined-printed-without-grant  
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AI CN 2004-10035181 A 20040414  
AIT CNA Patent application  
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PRAIT USP Provisional application  
IC.V 7  
ICM A47L011-22  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
EPC A47L0011-32

MEMBER 2

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
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INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.  
IC.V 7  
ICM A47L011-22  
IPCI A47L0011-22 [I, A ]; A47L0011-32 [I, A ]; A47L0011-00 [I, C\*]  
EPC A47L0011-32

AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
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AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application  
IPC1 A47L0011-22 [I, A ]; A47L0011-32 [I, A ]; A47L0011-00 [I, C\*]  
EPC A47L0011-32

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MEMBER 3  
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AN 49268576 INPADOCDB Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; HOI MA KEVIN KAM, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 20040205915 A1 20041021  
PIT USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]  
DAV 20041021 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI US 2003-728093 A 20031205  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)  
US 2003-463324P P 20030417 (USP)  
PRAIT USA Patent application  
USP Provisional application  
IC.V 7  
ICM A47L011-32  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
NCL 015 481; X015 411  
EPC A47L0011-32

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PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 6912753 B2 20050705 English  
PIT USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT AS SECOND

PUBLICATION [FROM 2001 ONWARDS]  
DAV 20050705 printed-with-grant  
STA GRANTED  
AI US 2003-728093 A 20031205  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)  
US 2003-463324P P 20030417 (USP)  
PRAIT USA Patent application  
USP Provisional application  
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IC.V 7  
ICM A47L011-32  
ICS A47L011-33  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
NCL 15 481; X 15 411  
EPC A47L0011-32

2 priorities, 3 applications, 5 publications

## ALL 表示形式

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DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
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NL PL PT RO SE SI SK TR  
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AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAIT USP Provisional application  
IPC1 A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPC1; LA; PA; PAS; PI;  
PIT; PRAI; TI

**ALL.M 表示形式**

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
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PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
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AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
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IC.V 7  
ICM A47L011-22  
IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
AL English  
AS EPO  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; REP; TI  
CHG AIOR A; PRAO A; PA A; IN A; DS A

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DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
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AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAIT USP Provisional application

IPC: A47L0011-22 [I, A ]; A47L0011-32 [I, A ]; A47L0011-00 [I, C\*]  
EPC A47L0011-32  
FA AI: AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; TI

## ALL.F 表示形式

### MEMBER 1

AN 18276957 INPADOCDB UP 20070726 UW 200730 Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS YIN SIN TIMMY HOK, HK; FAI HUI CHIU, HK; KAM HOI MA KEVIN, HK  
PA TECHTRONIC IND CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI CN 1550199 A 20041201  
PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.  
DAV 20041201 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI CN 2004-10035181 A 20040414  
AIT CNA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application  
IC.V 7  
ICM A47L011-22  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
EPC A47L0011-32  
FA ABOR; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPGR; PA; PAS; PI; PIT;  
PRAI; TI  
CHG EPC A

### MEMBER 2

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
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INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
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PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
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NL PL PT RO SE SI SK TR  
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AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application

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IC.V 7

ICM A47L011-22

IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]

EPC A47L0011-32

AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.

AL English

AS EPO

FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI; PIT; PRAI; REP; TI

CHG AIOR A; PRAO A; PA A; IN A; DS A

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PA TECHTRONIC INDUSTRIES CO., LTD.

PAS TECHTRONIC IND CO LTD, CN

DT Patent

PI EP 1468638 A3 20070829 English

PIT EPA3 SEARCH REPORT

DAV 20070829 supplemental-srep-reference

STA PRE-GRANT PUBLICATION

DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR

XS R: AL HR LT LV MK

AI EP 2004-8854 A 20040414

AIT EPA Patent application

PRAI US 2003-463324P P 20030417 (USP)

PRAIT USP Provisional application

IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]

EPC A47L0011-32

FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;

PIT; PRAI; TI

-----  
MEMBER 3  
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AN 49268576 INPADOCDB Full-text

FN 13537954

TI Manual floor sweeper.

TL English

IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM

INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; HOI MA KEVIN KAM, HK

PA TECHTRONIC INDUSTRIES CO., LTD.

PAS TECHTRONIC IND CO LTD, HK

DT Patent

PI US 20040205915 A1 20041021

PIT USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]

DAV 20041021 unexamined-printed-without-grant

STA PRE-GRANT PUBLICATION

AI US 2003-728093 A 20031205

AIT USA Patent application

PRAI US 2003-728093 A 20031205 (USA)

US 2003-463324P P 20030417 (USP)

PRAIT USA Patent application  
USP Provisional application

IC.V 7

ICM A47L011-32

IPCR A47L0011-32 [I, A ]

A47L0011-00 [I, C\*]

NCL 015 481; X015 411

EPC A47L0011-32

AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.

AL English

AS national office

FA AB; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPCR; NCL; PA; PAS; PI; PIT;  
PRAI; TI

AN 49268576 INPADOCDB Full-text

FN 13537954

TI Manual floor sweeper.

TL English

IN SIN TIMMY HOK YIN; HUI CHIU FAI; MA KEVIN KAM HOI

INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; MA KEVIN KAM HOI, HK

PA TECHTRONIC INDUSTRIES CO., LTD.

PAS TECHTRONIC IND CO LTD, HK

DT Patent

PI US 6912753 B2 20050705 English

PIT USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT AS SECOND  
PUBLICATION [FROM 2001 ONWARDS]

DAV 20050705 printed-with-grant

STA GRANTED

AI US 2003-728093 A 20031205

AIT USA Patent application

PRAI US 2003-728093 A 20031205 (USA)

US 2003-463324P P 20030417 (USP)

PRAIT USA Patent application

USP Provisional application

REC 11. THERE ARE 11 CITED REFERENCES (11 PATENT, 0 NON PATENT) AVAILABLE FOR  
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IC.V 7

ICM A47L011-32

ICS A47L011-33

IPCR A47L0011-32 [I, A ]

A47L0011-00 [I, C\*]

NCL 15 481; X 15 411

EPC A47L0011-32

AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.

AL English

AS national office

FA AB; AI; AN; DAV; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; LA; NCL; PA; PAS;  
PI; PIT; PRAI; REP; TI

2 priorities, 3 applications, 5 publications

## ALLO 表示形式

AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
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TL German; English; French  
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PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
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XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIO 04008854  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAO 463324 P  
PRAIT USP Provisional application  
IPC1 A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPC1; LA; PA; PAS; PI;  
PIT; PRAI; TI

## ALLO.M 表示形式

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
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Balai mecanique manuel.  
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DT Patent  
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AIT EPA Patent application  
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to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in  
a second direction for engaging the second drive member so as to move the brush roller in the sweeping  
direction.  
AL English  
AS EPO  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; REP; TI  
CHG AIOR A; PRAO A; PA A; IN A; DS A  
  
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DT Patent  
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PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
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AIO 04008854

AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAO 463324 P  
PRAIT USP Provisional application  
IPC1 A47L0011-22 [I, A ]; A47L0011-32 [I, A ]; A47L0011-00 [I, C\*]  
EPC A47L0011-32  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPC1; LA; PA; PAS; PI;  
PIT; PRAI; TI

## ALLO.F 表示形式

MEMBER 1

AN 18276957 INPADOCDB UP 20070726 UW 200730 Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
TIO 手动式地面清扫器  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS YIN SIN TIMMY HOK, HK; FAI HUI CHIU, HK; KAM HOI MA KEVIN, HK  
INO T·H·Y·洗; 许; H·马  
PA TECHTRONIC IND CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
PAO 创科实业有限公司  
DT Patent  
PI CN 1550199 A 20041201  
PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.  
DAV 20041201 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI CN 2004-10035181 A 20040414  
AIO A2004100351818  
AIT CNA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAO 60/463324  
PRAIT USP Provisional application  
IC.V 7  
ICM A47L011-22  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
EPC A47L0011-32  
ABO 一种手动式地面清扫器，包括外壳和安装在  
外壳内并可沿清扫方向旋转的刷辊。第一驱动件固定在刷辊上。第二驱动件可旋转地安装在外壳上并与第一驱动件相接合。驱动架可在第一位置和第二位置之间运动，当清扫器沿第一方向运动时，驱动架处于第一位置并与第一驱动件接合以使刷辊沿清扫方向旋转，而当清扫器沿第二方向运动时，驱动架处于第二位置并与第二驱动件接合以使刷辊沿清扫方向运动。  
FA ABOR; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPCR; PA; PAS; PI; PIT;  
PRAI; TI  
CHG EPC A

MEMBER 2

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FN 13537954  
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TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
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PA TECHTRONIC INDUSTRIES CO., LTD.  
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DT Patent  
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PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIO 04008854  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAO 463324 P  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.  
IC.V 7  
ICM A47L011-22  
IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in  
a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted  
rotatably with the housing and engagable with the first drive member. A drive carriage is movable between  
a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as  
to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in  
a second direction for engaging the second drive member so as to move the brush roller in the sweeping  
direction.  
AL English  
AS EPO  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; REP; TI  
CHG AIOR A; PRAO A; PA A; IN A; DS A  
  
AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
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AI EP 2004-8854 A 20040414

AIO 04008854  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAO 463324 P  
PRAIT USP Provisional application  
IPC1 A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPC1; LA; PA; PAS; PI;  
PIT: PRAI; TI

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MEMBER 3  
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AN 49268576 INPADOCDB Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; HOI MA KEVIN KAM, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 20040205915 A1 20041021  
PIT USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]  
DAV 20041021 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI US 2003-728093 A 20031205  
AIO 10728093  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)  
US 2003-463324P P 20030417 (USP)  
PRAO 60463324  
PRAIT USA Patent application  
USP Provisional application  
IC.V 7  
ICM A47L011-32  
IPCR A47L0011-32 [I,A ]  
A47L0011-00 [I,C\*]  
NCL 015 481; X015 411  
EPC A47L0011-32  
AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
AL English  
AS national office  
FA AB; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPCR; NCL; PA; PAS; PI; PIT;  
PRAI; TI

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PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 6912753 B2 20050705 English  
PIT USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT AS SECOND PUBLICATION [FROM 2001 ONWARDS]  
DAV 20050705 printed-with-grant

STA GRANTED  
AI US 2003-728093 A 20031205  
AIO 10728093  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)  
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PI; PIT; PRAI; REP; TI

2 priorities, 3 applications, 5 publications

**MAX 表示形式**

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
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PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
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DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
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AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
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REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
CH 214883 A (SEA, pat, Cat: A)  
IC.V 7  
ICM A47L011-22  
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EPC A47L0011-32  
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AL English  
AS EPO  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; REP; TI  
CHG AIOR A; PRAO A; PA A; IN A; DS A

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PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414

AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAIT USP Provisional application  
IPC: A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; TI

LEGAL STATUS

AN 24159834 INPADOCDB Full-text  
20041020 EPAK + DESIGNATED CONTRACTING STATES:  
EP A2  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
AL HR LT LV MK  
20070829 EPAK + DESIGNATED CONTRACTING STATES:  
EP A3  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/22 20060101AF120040727BHEP  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/32 20060101AL120070725BHEP  
200735.....20070830  
20071219 EP17P + REQUEST FOR EXAMINATION FILED  
20071108  
EXA Examination, Search Report  
200751.....20071220  
20080109 EP17Q + FIRST EXAMINATION REPORT  
20071214  
EXA Examination, Search Report  
200802.....20080110  
20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200819.....20080508

## MAX.M 表示形式

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
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AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD.  
REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
CH 214883 A (SEA, pat, Cat: A)  
IC.V 7  
ICM A47L011-22  
IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rocatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
AL English  
AS EPO  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; REP; TI  
CHG AIOR A; PRAO A; PA A; IN A; DS A  
  
AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIT EPA Patent application

PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAIT USP Provisional application  
IPC: A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; TI

LEGAL STATUS

AN 24159834 INPADOCDB Full-text  
20041020 EPAK + DESIGNATED CONTRACTING STATES:  
EP A2  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
AL HR LT LV MK  
20070829 EPAK + DESIGNATED CONTRACTING STATES:  
EP A3  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/22 20060101AFI20040727BHEP  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/32 20060101ALI20070725BHEP  
200735.....20070830  
20071219 EP17P + REQUEST FOR EXAMINATION FILED  
20071108  
EXA Examination, Search Report  
200751.....20071220  
20080109 EP17Q + FIRST EXAMINATION REPORT  
20071214  
EXA Examination, Search Report  
200802.....20080110  
20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200819.....20080508

MAX.F 表示形式

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AN 18276957 INPADOCDB UP 20070726 UW 200730 Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS YIN SIN TIMMY HOK, HK; FAI HUI CHIU, HK; KAM HOI MA KEVIN, HK  
PA TECHTRONIC IND CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI CN 1550199 A 20041201  
PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.  
DAV 20041201 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI CN 2004-10035181 A 20040414  
AIT CNA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application  
IC.V 7  
ICM A47L011-22  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
EPC A47L0011-32  
FA ABOR: AI: AN: DAV: DT: EPC: ICM: IN: INS: IPC: IPCR: PA: PAS: PI: PIT:  
PRAI: TI  
CHG EPC A

MEMBER 2

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
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AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
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REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
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IC.V 7  
ICM A47L011-22

IPC1 A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]

EPC A47L0011-32

AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.

AL English

AS EPO

FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI; PIT; PRAI; REP; TI

CHG AIOR A; PRAO A; PA A; IN A; DS A

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PA TECHTRONIC INDUSTRIES CO., LTD.

PAS TECHTRONIC IND CO LTD, CN

DT Patent

PI EP 1468638 A3 20070829 English

PIT EPA3 SEARCH REPORT

DAV 20070829 supplemental-srep-reference

STA PRE-GRANT PUBLICATION

DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR

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AI EP 2004-8854 A 20040414

AIT EPA Patent application

PRAI US 2003-463324P P 20030417 (USP)

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IPC1 A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]

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FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;

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#### LEGAL STATUS

AN 24159834 INPADOCDB Full-text

20041020 EPAK + DESIGNATED CONTRACTING STATES:

EP A2

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MC NL PL PT RO SE SI SK TR

20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO

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20070829 EPAK + DESIGNATED CONTRACTING STATES:

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20070829 EPRIC1 CLASSIFICATION (CORRECTION)

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20070829 EPRIC1 CLASSIFICATION (CORRECTION)

A47L 11/32 20060101ALI20070725BHEP

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20071219 EP17P + REQUEST FOR EXAMINATION FILED

20071108

EXA Examination, Search Report

200751.....20071220

20080109 EP17Q + FIRST EXAMINATION REPORT

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EXA Examination, Search Report  
200802.....20080110  
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PA TECHTRONIC INDUSTRIES CO., LTD.  
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DT Patent  
PI US 20040205915 A1 20041021  
PIT USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]  
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STA PRE-GRANT PUBLICATION  
AI US 2003-728093 A 20031205  
AIT USA Patent application  
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PRAIT USA Patent application  
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INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; MA KEVIN KAM HOI, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 6912753 B2 20050705 English  
PIT USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT AS SECOND PUBLICATION [FROM 2001 ONWARDS]  
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AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)

US 2003-463324P P 20030417 (USP)

PRAIT USA Patent application

USP Provisional application

REC 11. THERE ARE 11 CITED REFERENCES (11 PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD.

REP US 642172 A (SEA, pat)  
US 1972870 A (SEA, pat)  
US 2563189 A (SEA, pat)  
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US 2625698 A (SEA, pat)  
US 2783487 A (SEA, pat)  
US 3602932 A (SEA, pat)  
US 3638267 A (SEA, pat)  
US 4007508 A (APP, pat)  
US 4823422 A (APP, pat)  
US 5239721 A (APP, pat)

IC.V 7

ICM A47L011-32

ICS A47L011-33

IPCR A47L0011-32 [I, A ]

A47L0011-00 [I, C\*]

NCL 15 481; X 15 411

EPC A47L0011-32

AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.

AL English

AS national office

FA AB; AI; AN; DAV; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; LA; NCL; PA; PAS;

PI; PIT; PRAI; REP; TI

#### LEGAL STATUS

AN 49268576 INPADOCDB Full-text

20040316 USAS

ASSIGNMENT

TECHTRONIC INDUSTRIES CO., LTD. 388 CASTLE PEAK RO

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:SIN, TIMMY HOK

YIN /AR:REEL/FRAME:015091/0023

20031229

CHG Change of Owner, Inventor, Applicant

2 priorities, 3 applications, 5 publications

**MAXO 表示形式**

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIO 04008854  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAO 463324 P  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD.  
REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
CH 214883 A (SEA, pat, Cat: A)  
IC.V 7  
ICM A47L011-22  
IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rocatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
AL English  
AS EPO  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; REP; TI  
CHG AIOR A; PRAO A; PA A; IN A; DS A  
  
AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR

XS R: AL HR LT LV MK  
 AI EP 2004-8854 A 20040414  
 AIO 04008854  
 AIT EPA Patent application  
 PRAI US 2003-463324P P 20030417 (USP, 20070830)  
 PRAO 463324 P  
 PRAIT USP Provisional application  
 IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
 EPC A47L0011-32  
 FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
 PIT; PRAI; TI

LEGAL STATUS

AN 24159834 INPADOCDB Full-text  
 20041020 EPAK + DESIGNATED CONTRACTING STATES:  
                   EP  A2  
                   AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
                   MC NL PL PT RO SE SI SK TR  
 20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
                   AL HR LT LV MK  
 20070829 EPAK + DESIGNATED CONTRACTING STATES:  
                   EP  A3  
                   AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
                   MC NL PL PT RO SE SI SK TR  
                   200735.....20070830  
 20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
                   A47L 11/22          20060101AFI20040727BHEP  
                   200735.....20070830  
 20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
                   A47L 11/32          20060101ALI20070725BHEP  
                   200735.....20070830  
 20071219 EP17P + REQUEST FOR EXAMINATION FILED  
                   20071108  
                   EXA Examination, Search Report  
                   200751.....20071220  
 20080109 EP17Q + FIRST EXAMINATION REPORT  
                   20071214  
                   EXA Examination, Search Report  
                   200802.....20080110  
 20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
                   AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
                   MC NL PL PT RO SE SI SK TR  
                   200819.....20080508

## MAXO.M 表示形式

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIO 04008854  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAO 463324 P  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD.  
REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
CH 214883 A (SEA, pat, Cat: A)  
IC.V 7  
ICM A47L011-22  
IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rocatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
AL English  
AS EPO  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; REP; TI  
CHG AIOR A; PRAO A; PA A; IN A; DS A  
  
AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR

XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIO 04008854  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAO 463324 P  
PRAIT USP Provisional application  
IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; TI

LEGAL STATUS

AN 24159834 INPADOCDB Full-text  
20041020 EPAK + DESIGNATED CONTRACTING STATES:  
EP A2  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
AL HR LT LV MK  
20070829 EPAK + DESIGNATED CONTRACTING STATES:  
EP A3  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/22 20060101AFI20040727BHEP  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/32 20060101ALI20070725BHEP  
200735.....20070830  
20071219 EP17P + REQUEST FOR EXAMINATION FILED  
20071108  
EXA Examination, Search Report  
200751.....20071220  
20080109 EP17Q + FIRST EXAMINATION REPORT  
20071214  
EXA Examination, Search Report  
200802.....20080110  
20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200819.....20080508

## MAXO.F 表示形式

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MEMBER 1  
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AN 18276957 INPADOCDB UP 20070726 UW 200730 Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
TIO 手动式地面清扫器  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS YIN SIN TIMMY HOK, HK; FAI HUI CHIU, HK; KAM HOI MA KEVIN, HK  
INO T·H·Y·洗; 许; H·马  
PA TECHTRONIC IND CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
PAO 创科实业有限公司  
DT Patent  
PI CN 1550199 A 20041201  
PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.  
DAV 20041201 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI CN 2004-10035181 A 20040414  
AIO A2004100351818  
AIT CNA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAO 60/463324  
PRAIT USP Provisional application  
IC.V 7  
ICM A47L011-22  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
EPC A47L0011-32  
ABO 一种手动式地面清扫器，包括外壳和安装在  
在外壳内并可沿清扫方向旋转的刷辊。第一驱动件固定在刷辊上。第二驱动件可旋转地安装在外壳上并与第一驱动件相接合。驱动架可在第一位置和第二位置之间运动，当清扫器沿第一方向运动时，驱动架处于第一位置并与第一驱动件接合以使刷辊沿清扫方向旋转，而当清扫器沿第二方向运动时，驱动架处于第二位置并与第二驱动件接合以使刷辊沿清扫方向运动。  
FA ABOR; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPCR; PA; PAS; PI; PIT; PRAI; TI  
CHG EPC A

MEMBER 2

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIO 04008854  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAO 463324 P  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD.  
REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
CH 214883 A (SEA, pat, Cat: A)  
IC.V 7  
ICM A47L011-22  
IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rocatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
AL English  
AS EPO  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; REP; TI  
CHG AIOR A; PRAO A; PA A; IN A; DS A

AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC

NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIO 04008854  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAO 463324 P  
PRAIT USP Provisional application  
IPC1 A47L0011-22 [I,A ]: A47L0011-32 [I,A ]: A47L0011-00 [I,C\*]  
EPC A47L0011-32  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPC1; LA; PA; PAS; PI;  
PIT; PRAI; TI

LEGAL STATUS

AN 24159834 INPADOCDB Full-text  
20041020 EPAK + DESIGNATED CONTRACTING STATES:  
EP A2  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
AL HR LT LV MK  
20070829 EPAK + DESIGNATED CONTRACTING STATES:  
EP A3  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/22 20060101AFI20040727BHEP  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/32 20060101ALI20070725BHEP  
200735.....20070830  
20071219 EP17P + REQUEST FOR EXAMINATION FILED  
20071108  
EXA Examination, Search Report  
200751.....20071220  
20080109 EP17Q + FIRST EXAMINATION REPORT  
20071214  
EXA Examination, Search Report  
200802.....20080110  
20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200819.....20080508

MEMBER 3

AN 49268576 INPADOCDB Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; HOI MA KEVIN KAM, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 20040205915 A1 20041021  
PIT USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]  
DAV 20041021 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI US 2003-728093 A 20031205  
AIO 10728093  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)

US 2003-463324P P 20030417 (USP)  
 PRAO 60463324  
 PRAIT USA Patent application  
 USP Provisional application  
 IC.V 7  
 ICM A47L011-32  
 IPCR A47L0011-32 [I, A ]  
 A47L0011-00 [I, C\*]  
 NCL 015 481; X015 411  
 EPC A47L0011-32  
 AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
 AL English  
 AS national office  
 FA AB; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPCR; NCL; PA; PAS; PI; PIT;  
 PRAI; TI  
  
 AN 49268576 INPADOCDB Full-text  
 FN 13537954  
 TI Manual floor sweeper.  
 TL English  
 IN SIN TIMMY HOK YIN; HUI CHIU FAI; MA KEVIN KAM HOI  
 INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; MA KEVIN KAM HOI, HK  
 PA TECHTRONIC INDUSTRIES CO., LTD.  
 PAS TECHTRONIC IND CO LTD, HK  
 DT Patent  
 PI US 6912753 B2 20050705 English  
 PIT USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT AS SECOND PUBLICATION [FROM 2001 ONWARDS]  
 DAV 20050705 printed-with-grant  
 STA GRANTED  
 AI US 2003-728093 A 20031205  
 AIO 10728093  
 AIT USA Patent application  
 PRAI US 2003-728093 A 20031205 (USA)  
 US 2003-463324P P 20030417 (USP)  
 PRAO 60463324  
 PRAIT USA Patent application  
 USP Provisional application  
 REC 11. THERE ARE 11 CITED REFERENCES (11 PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD.  
 REP US 642172 A (SEA, pat)  
 US 1972870 A (SEA, pat)  
 US 2563189 A (SEA, pat)  
 US 2587038 A (SEA, pat)  
 US 2625698 A (SEA, pat)  
 US 2783487 A (SEA, pat)  
 US 3602932 A (SEA, pat)  
 US 3638267 A (SEA, pat)  
 US 4007508 A (APP, pat)  
 US 4823422 A (APP, pat)  
 US 5239721 A (APP, pat)  
 IC.V 7  
 ICM A47L011-32  
 ICS A47L011-33  
 IPCR A47L0011-32 [I, A ]  
 A47L0011-00 [I, C\*]  
 NCL 15 481; X 15 411  
 EPC A47L0011-32  
 AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted

rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.

AL English  
AS national office  
FA AB; AI; AN; DAV; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; LA; NCL; PA; PAS;  
PI; PIT; PRAI; REP; TI

LEGAL STATUS

AN 49268576 INPADOCDB Full-text  
20040316 USAS ASSIGNMENT  
TECHTRONIC INDUSTRIES CO., LTD. 388 CASTLE PEAK RO  
ASSIGNMENT OF ASSIGNORS INTEREST:ASSIGNORS:SIN, TIMMY HOK  
YIN /AR;REEL/FRAME:015091/0023  
20031229  
CHG Change of Owner, Inventor, Applicant

2 priorities, 3 applications, 5 publications

## MAXO2 表示形式

AN 57548086 INPADOCDB UP 20071122 UW 200851 [Full-text](#)  
FN 15975720  
TI Kabine für eine Luftseilbahn.  
Cabin for an aerial cableway.  
Cabine pour le transport aérien par câbles.  
TL German; English; French  
IN VITTOZ, THIERRY; BREHMER, PATRICK  
INS VITTOZ THIERRY, FR; BREHMER PATRICK, FR  
PA SIGMA COMPOSITE  
PAS SIGMA COMPOSITE, FR  
DT Patent  
PI **EP 1389572** **A1 20040218** French  
PIT EPA1 APPLICATION PUBLISHED WITH SEARCH REPORT  
DAV 20040218 examined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT CH ES IT LI  
AI EP 2003-354076 A 20030415  
AIO 03354076  
AIT EPA Patent application  
PRAI EP 2003-354033 A 20030415 (EPA3, 20090102, Y)  
FR 2002-4722 A 20020416 (FRA, 20080515, Y)  
FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
PRAO 03354033 ; 0204722 ;  
0204911  
PRAIT EPA3 Prior application claimed for a division  
FRA Patent application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD.  
REP US 953352 A (SEA, pat, Cat: A)  
US 4327648 A (SEA, pat, Cat: A)  
US 3797409 A (SEA, pat, Cat: A)  
IC.V 7  
ICM B61B012-02  
ICS B61B012-00  
IPCR B61B0012-00 [I, A ]; B61B0012-02 [I, A ]  
B61B0012-00 [I, C\*]  
EPC B61B0012-00B; B61B0012-02D  
AB A cable car cabin has a frame comprising pairs of cross pieces (2) and verticals (6) with upward extensions  
fitted with plate brackets linked by dampers (12) to a yoke (8).  
AL English  
AS transcript  
ABFR Une cabine pour le transport aérien par câbles, comprend une  
ossature associée à un palonnier (8) de liaison, ladite  
ossature étant composée de montants (6) verticaux en formes de  
profilés métalliques solidarités par des moyens  
d'assemblage à des traverses (2) parallèles deux à deux et  
formant des parties supérieure et inférieure.  
L'extrémité supérieure de chaque montant (6) est  
prolongée par une extension faisant saillie du plan horizontal  
défini par les traverses (2) formant la partie supérieure. Un  
dispositif de fixation est assemblé à l'extension de chaque  
montant (6) en étant équipé d'un amortisseur (12) pour la  
liaison à un bras du palonnier (8). &lt;IMAGE&gt;.  
AL French  
AS EPO  
FA AB; **ABFR**; AI; AN; DAV; DS; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; LA;  
PA; PAS; PI; PIT; PRAI; REP; TI

### LEGAL STATUS

AN 57548086 INPADOCDB [Full-text](#)  
20040218 EPAC DIVISIONAL APPLICATION (ART. 76) OF:  
EP 1354777 P  
.....20081218  
20040218 EPAK + DESIGNATED CONTRACTING STATES:

EP A1  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PT RO SE SI SK TR  
 200850.....20081218  
 20040218 EPAK + EXTENSION OF THE EUROPEAN PATENT TO  
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 200850.....20081218  
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 20040710  
 EXA Examination, Search Report  
 200850.....20081218  
 20041110 EPAKX + PAYMENT OF DESIGNATION FEES  
 AT CH ES IT LI  
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 20041216 EPREG DE8566 REFERENCE TO A NATIONAL CODE  
 - DE: DESIGNATED COUNTRY DE NOT LONGER VALID  
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 200850.....20081218  
 20081231 EPAC DIVISIONAL APPLICATION (ART. 76) OF:  
 EP 1354777 P  
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 20081231 EPAK + DESIGNATED CONTRACTING STATES:  
 EP B1  
 AT CH ES IT LI  
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 20081231 EPREG CHEP REFERENCE TO A NATIONAL CODE  
 + CH: ENTRY IN THE NATIONAL PHASE  
 200903.....20090115

AN 57548086 INPADOCDB ED 20090102 EW 200901 UP 20090102 UW 200901 [Full-text](#)  
 FN 15975720  
 TI Kabine für eine Luftseilbahn.  
 Cabin for an aerial cableway.  
 Cabine pour le transport aérien par cables.  
 TL German; English; French  
 IN VITTOZ, THIERRY; BREHMER, PATRICK  
 INS VITTOZ THIERRY, FR; BREHMER PATRICK, FR  
 PA SIGMA COMPOSITE  
 PAS SIGMA COMPOSITE, FR  
 DT Patent  
 PI **EP 1389572** **B1 20081231** French  
 PIT EPB1 PATENT SPECIFICATION  
 DAV 20081231 printed-with-grant  
 STA GRANTED  
 DS R: AT CH ES IT LI  
 AI EP 2003-354076 A 20030415  
 AIO 03354076  
 AIT EPA Patent application  
 PRAI EP 2003-354033 A 20030415 (EPA3, 20090102, Y)  
 FR 2002-4722 A 20020416 (FRA, 20080515, Y)  
 FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
 PRAO 03354033 ; 0204722 ;  
 0204911  
 PRAIT EPA3 Prior application claimed for a division  
 FRA Patent application  
 IPCI B61B0012-02 [I, A ] ; B61B0012-00 [I, A ]  
 B61B0012-00 [I, C\*]  
 EPC B61B0012-00B; B61B0012-02D  
 ABEQ (EP 1389572 A1)  
 A cable car cabin has a frame comprising pairs of cross pieces (2) and  
 verticals (6) with upward extensions fitted with plate brackets linked by  
 dampers (12) to a yoke (8).  
 AL English  
 AS transcript  
 FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
 PIT; PRAI; TI

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DE8566 - DE: DESIGNATED COUNTRY DE NOT LONGER VALID  
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CHEP + CH: ENTRY IN THE NATIONAL PHASE  
200903.....20090115

## MAXO2.M 表示形式

AN 57548086 INPADOCDB UP 20071122 UW 200851 [Full-text](#)  
FN 15975720  
TI Kabine für eine Luftseilbahn.  
Cabin for an aerial cableway.  
Cabine pour le transport aérien par câbles.  
TL German; English; French  
IN VITTOZ, THIERRY; BREHMER, PATRICK  
INS VITTOZ THIERRY, FR; BREHMER PATRICK, FR  
PA SIGMA COMPOSITE  
PAS SIGMA COMPOSITE, FR  
DT Patent  
PI **EP 1389572** **A1 20040218** French  
PIT EPA1 APPLICATION PUBLISHED WITH SEARCH REPORT  
DAV 20040218 examined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT CH ES IT LI  
AI EP 2003-354076 A 20030415  
AIO 03354076  
AIT EPA Patent application  
PRAI EP 2003-354033 A 20030415 (EPA3, 20090102, Y)  
FR 2002-4722 A 20020416 (FRA, 20080515, Y)  
FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
PRAO 03354033 ; 0204722 ;  
0204911  
PRAIT EPA3 Prior application claimed for a division  
FRA Patent application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
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US 3797409 A (SEA, pat, Cat: A)  
IC.V 7  
ICM B61B012-02  
ICS B61B012-00  
IPCR B61B0012-00 [I, A ]; B61B0012-02 [I, A ]  
B61B0012-00 [I, C\*]  
EPC B61B0012-00B; B61B0012-02D  
AB A cable car cabin has a frame comprising pairs of cross pieces (2) and verticals (6) with upward extensions  
fitted with plate brackets linked by dampers (12) to a yoke (8).  
AL English  
AS transcript  
ABFR Une cabine pour le transport aérien par câbles, comprend une  
ossature associée à un palonnier (8) de liaison, ladite  
ossature étant composée de montants (6) verticaux en formes de  
profilés métalliques solidarités par des moyens  
d'assemblage à des traverses (2) parallèles deux à deux et  
formant des parties supérieure et inférieure.  
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AS EPO  
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 Cabin for an aerial cableway.  
 Cabine pour le transport aérien par cables.  
 TL German; English; French  
 IN VITTOZ, THIERRY; BREHMER, PATRICK  
 INS VITTOZ THIERRY, FR; BREHMER PATRICK, FR  
 PA SIGMA COMPOSITE  
 PAS SIGMA COMPOSITE, FR  
 DT Patent  
 PI EP 1389572 B1 20081231 French  
 PIT EPB1 PATENT SPECIFICATION  
 DAV 20081231 printed-with-grant  
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 DS R: AT CH ES IT LI  
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 AIO 03354076  
 AIT EPA Patent application  
 PRAI EP 2003-354033 A 20030415 (EPA3, 20090102, Y)  
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 PRAO 03354033 ; 0204722 ;  
 0204911  
 PRAIT EPA3 Prior application claimed for a division  
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 B61B0012-00 [I, C\*]  
 EPC B61B0012-00B; B61B0012-02D  
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 AL English  
 AS transcript  
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 PIT; PRAI; TI

LEGAL STATUS

AN 57548086 INPADOCDB [Full-text](#)  
20040218 EPAC DIVISIONAL APPLICATION (ART. 76) OF:  
EP 1354777 P  
.....20081218  
20040218 EPAK + DESIGNATED CONTRACTING STATES:  
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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PT RO SE SI SK TR  
200850.....20081218  
20040218 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
AL LT LV MK  
200850.....20081218  
20040908 EP17P + REQUEST FOR EXAMINATION FILED  
20040710  
EXA Examination, Search Report  
200850.....20081218  
20041110 EPAKX + PAYMENT OF DESIGNATION FEES  
AT CH ES IT LI  
200850.....20081218  
20041216 EPREG REFERENCE TO A NATIONAL CODE  
DE8566 - DE: DESIGNATED COUNTRY DE NOT LONGER VALID  
NIF Lapses, Expiries, Withdrawals, Refusals  
200850.....20081218  
20081231 EPAC DIVISIONAL APPLICATION (ART. 76) OF:  
EP 1354777 P  
200901.....20090102  
20081231 EPAK + DESIGNATED CONTRACTING STATES:  
EP B1  
AT CH ES IT LI  
200901.....20090102  
20081231 EPREG REFERENCE TO A NATIONAL CODE  
CHEP + CH: ENTRY IN THE NATIONAL PHASE  
200903.....20090115

## MAXO2.F 表示形式

### MEMBER 1

AN 56351893 INPADOCDB ED 20080528 EW 200822 UP 20080528 UW 200822 [Full-text](#)  
FN 15975720  
SFN 28676468  
TI KABINE EINER LUFTSEILBAHN MIT EINEM METALLISCHEN GERIPPE MIT  
ABGEWINKELTEN PFOSTEN VARIABLER LÄNGE.  
TL German  
IN VITTOZ, THIERRY; BREHMER, PATRICK  
INS VITTOZ THIERRY, FR; BREHMER PATRICK, FR  
PA SIGMA COMPOSITE  
PAS SIGMA COMPOSITE, FR  
DT Patent  
PI AT 395232T T 20080515  
PIT ATT TRANSLATION OF EUROPEAN PATENT SPECIFICATION or EP PATENT VALID IN  
AT [FROM 01.08.2005 ONWARDS]  
DAV 20080515 printed-with-grant  
STA GRANTED  
AI AT 2003-354033 T 20030415  
AIO 03354033  
AIT ATT Translation  
PRAI FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
FR 2002-4722 A 20020416 (FRA, 20080515, Y)  
PRAO 0204911 ; 0204722  
PRAIT FRA Patent application  
IPCI B61B0012-00 [I,A ]; B61B0012-02 [I,A ]  
B61B0012-00 [I,C\*]  
EPC B61B0012-00B; B61B0012-02D  
FA AI; AN; DAV; DT; ED; EPC; EW; IN; INS; IPC; IPCI; PA; PAS; PI; PIT; PRAI;  
TI

### LEGAL STATUS

AN 56351893 INPADOCDB [Full-text](#)  
20081215 ATUEP + PUBLICATION OF TRANSLATION OF EUROPEAN PATENT  
SPECIFICATION  
EP 1354777  
200851.....20081218

### MEMBER 2

AN 57852902 INPADOCDB ED 20090129 EW 200905 UP 20090129 UW 200905 [Full-text](#)  
FN 15975720  
SFN 28676468  
TI KABINE FÜR EINE LUFTSEILBAHN.  
TL German  
IN VITTOZ, THIERRY; BREHMER, PATRICK  
INS VITTOZ THIERRY, FR; BREHMER PATRICK, FR  
PA SIGMA COMPOSITE  
PAS SIGMA COMPOSITE, FR  
DT Patent  
PI AT 419153T T 20090115  
PIT ATT TRANSLATION OF EUROPEAN PATENT SPECIFICATION or EP PATENT VALID IN  
AT [FROM 01.08.2005 ONWARDS]  
DAV 20090115 printed-with-grant  
STA GRANTED  
AI AT 2003-354076 T 20030415  
AIO 03354076  
AIT ATT Translation  
PRAI FR 2002-4722 A 20020416 (FRA, 20080515, Y)

FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
PRAO 0204722 ; 0204911  
PRAIT FRA Patent application  
IPC1 B61B0012-02 [I, A ] ; B61B0012-00 [I, A ]  
B61B0012-00 [I, C\*]  
EPC B61B0012-00B ; B61B0012-02D  
FA AI ; AN ; DAV ; DT ; ED ; EPC ; EW ; IN ; INS ; IPC ; IPCI ; PA ; PAS ; PI ; PIT ; PRAI ;  
TI

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AN 24045992 INPADOCDB UP 20071115 UW 200746 [Full-text](#)  
FN 15975720  
SFN 28676468  
TI Kabine einer Luftseilbahn mit einem metallischen Gerippe mit  
abgewinkelten Pfosten variabler Länge.  
Cabin of an aerial cableway with a steel framework with bent posts of  
variable length.  
Cabine d'une installation de transport à câble aérien  
comportant une ossature métallique dotée de montants  
coudés de longueur variable.  
TL German ; English ; French  
IN VITTOZ, THIERRY ; BREHMER, PATRICK  
INS VITTOZ THIERRY, FR ; BREHMER PATRICK, FR  
PA SIGMA COMPOSITE  
PAS SIGMA COMPOSITE, FR  
DT Patent  
PI EP 1354777 A1 20031022 French  
PIT EPA1 APPLICATION PUBLISHED WITH SEARCH REPORT  
DAV 20031022 examined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R : AT CH ES IT LI  
AI EP 2003-354033 A 20030415  
AIO 03354033  
AIT EPA Patent application  
PRAI FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
FR 2002-4722 A 20020416 (FRA, 20080515, Y)  
PRAO 0204911 ; 0204722  
PRAIT FRA Patent application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD.  
REP US 4327648 A (SEA, pat, Cat: A)  
US 953352 A (SEA, pat, Cat: A)  
US 3797409 A (SEA, pat, Cat: A)  
IC.V 7  
ICM B61B012-00  
ICS B61B012-02  
IPCR B61B0012-00 [I, A ] ; B61B0012-02 [I, A ]  
B61B0012-00 [I, C\*]  
EPC B61B0012-00B ; B61B0012-02D  
AB The cabin installation has a metallic frame (1) with cross parts (2d, 2f) forming lower and upper parts  
of the cabin frame. Each mounting (6d) has rectangular sections forming obtuse angles in an intermediate  
zone.  
AL English  
AS transcript  
ABFR L'ossature métallique (1) de la cabine comprend des traverses (2d,  
2f), formant des parties inférieure (3) et supérieure (4) de  
l'ossature, et des montants, reliant la partie supérieure à la  
partie inférieure de l'ossature. Chaque montant comporte deux  
sections rectilignes reliées par un coude et faisant entre elles un  
angle obtus prédéterminé. Les montants (6d) sont  
fabriqués par cintrage du coude et par découpe d'au moins une  
des sections rectilignes de montants standard. Ceci permet de simplifier  
la fabrication d'une gamme de cabines d'une installation de transport

à câble aériens, de surface et/ou de hauteur modulable.

&lt;IMAGE&gt;.

AL French  
AS EPO  
FA AB; ABR; AI; AN; DAV; DS; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; LA; PA;  
PAS; PI; PIT; PRAI; REP; TI  
CHG CIT A

LEGAL STATUS

AN 24045992 INPADOCDB [Full-text](#)  
20031022 EPAK + DESIGNATED CONTRACTING STATES:  
EP A1  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PT RO SE SI SK TR  
20031022 EPAK + EXTENSION OF THE EUROPEAN PATENT TO  
AL LT LV MK  
20031029 EPRIN1 INVENTOR (CORRECTION)  
VITTOZ, THIERRY  
CHG Change of Owner, Inventor, Applicant  
20031029 EPRIN1 INVENTOR (CORRECTION)  
BREHMER, PATRICK/O SIGMA COMPOSITE  
CHG Change of Owner, Inventor, Applicant  
20040616 EP17P + REQUEST FOR EXAMINATION FILED  
20040414  
EXA Examination, Search Report  
20040714 EPAKX + PAYMENT OF DESIGNATION FEES  
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20040819 EPREG REFERENCE TO A NATIONAL CODE  
DE8566 - DE: DESIGNATED COUNTRY DE NOT LONGER VALID  
NIF Lapses, Expiries, Withdrawals, Refusals  
20080514 EPAK + DESIGNATED CONTRACTING STATES:  
EP B1  
AT CH ES IT LI  
200820.....20080515  
20080530 EPREG REFERENCE TO A NATIONAL CODE  
CHEP + CH: ENTRY IN THE NATIONAL PHASE  
200823.....20080605  
20080815 EPREG REFERENCE TO A NATIONAL CODE  
CHNV CH: NEW AGENT  
CABINET ROLAND NITHARDT CONSEILS EN PROPRIETE INDU  
200835.....20080828

AN 24045992 INPADOCDB ED 20080515 EW 200820 UP 20080515 UW 200820 [Full-text](#)  
FN 15975720  
SFN 28676468  
TI Kabine einer Luftseilbahn mit einem metallischen Gerippe mit  
abgewinkelten Pfosten variabler Länge.  
Cabin of an aerial cableway with a steel framework with bent posts of  
variable length.  
Cabine d'une installation de transport à câble aérien  
comportant une ossature métallique dotée de montants  
coudés de longueur variable.  
TL German; English; French  
IN VITTOZ, THIERRY; BREHMER, PATRICK  
INS VITTOZ THIERRY, FR; BREHMER PATRICK, FR  
PA SIGMA COMPOSITE  
PAS SIGMA COMPOSITE, FR  
DT Patent  
PI EP 1354777 B1 20080514 French  
PIT EPB1 PATENT SPECIFICATION  
DAV 20080514 printed-with-grant  
STA GRANTED  
DS R: AT CH ES IT LI  
AI EP 2003-354033 A 20030415  
AIO 03354033  
AIT EPA Patent application

PRAI FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
FR 2002-4722 A 20020416 (FRA, 20080515, Y)  
PRAO 0204911 ; 0204722  
PRAIT FRA Patent application  
IPC1 B61B0012-00 [I, A ]; B61B0012-02 [I, A ]  
B61B0012-00 [I, C\*]  
EPC B61B0012-00B; B61B0012-02D  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT: PRAI: TI

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20031022 EPAK + DESIGNATED CONTRACTING STATES:  
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20031029 EPRIN1 CHG Change of Owner, Inventor, Applicant  
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20080815 EPREG REFERENCE TO A NATIONAL CODE  
CHNV CH: NEW AGENT  
CABINET ROLAND NITHARDT CONSEILS EN PROPRIETE INDU  
200835.....20080828

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MEMBER 4  
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AN 57548086 INPADOCDB UP 20071122 UW 200851 [Full-text](#)  
FN 15975720  
SFN 30773252  
TI Kabine für eine Luftseilbahn.  
Cabin for an aerial cableway.  
Cabine pour le transport aérien par cables.  
TL German; English; French  
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INS VITTOZ THIERRY, FR; BREHMER PATRICK, FR  
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DT Patent  
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 IPCR B61B0012-00 [I, A ] ; B61B0012-02 [I, A ]  
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 dispositif de fixation est assemblé à l'extension de chaque  
 montant (6) en étant équipé d'un amortisseur (12) pour la  
 liaison à un bras du palonnier (8). &lt;IMAGE&gt;.  
 AL French  
 AS EPO  
 FA AB; **ABFR**; AI; AN; DAV; DS; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; LA;  
 PA; PAS; PI; PIT; PRAI; REP; TI

LEGAL STATUS

AN 57548086 INPADOCDB [Full-text](#)  
 20040218 EPAC DIVISIONAL APPLICATION (ART. 76) OF:  
 EP 1354777 P  
 .....20081218  
 20040218 EPAK + DESIGNATED CONTRACTING STATES:  
 EP A1  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PT RO SE SI SK TR  
 200850.....20081218  
 20040218 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
 AL LT LV MK  
 200850.....20081218  
 20040908 EP17P + REQUEST FOR EXAMINATION FILED  
 20040710  
 EXA Examination, Search Report  
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 20041110 EPAKX + PAYMENT OF DESIGNATION FEES  
 AT CH ES IT LI  
 200850.....20081218  
 20041216 EPREG REFERENCE TO A NATIONAL CODE  
 DE8566 - DE: DESIGNATED COUNTRY DE NOT LONGER VALID  
 NIF Lapses, Expiries, Withdrawals, Refusals  
 200850.....20081218  
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EP 1354777 P  
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 20081231 EPAK + DESIGNATED CONTRACTING STATES:  
 EP B1  
 AT CH ES IT LI  
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 20081231 EPREG REFERENCE TO A NATIONAL CODE  
 CHEP + CH: ENTRY IN THE NATIONAL PHASE  
 200903.....20090115

AN 57548086 INPADOCDB ED 20090102 EW 200901 UP 20090102 UW 200901 [Full-text](#)

FN 15975720  
 SFN 30773252  
 TI Kabine für eine Luftseilbahn.  
 Cabin for an aerial cableway.  
 Cabine pour le transport aérien par cables.  
 TL German; English; French  
 IN VITTOZ, THIERRY; BREHMER, PATRICK  
 INS VITTOZ THIERRY, FR; BREHMER PATRICK, FR  
 PA SIGMA COMPOSITE  
 PAS SIGMA COMPOSITE, FR  
 DT Patent  
 PI **EP 1389572** B1 20081231 French  
 PIT EPB1 PATENT SPECIFICATION  
 DAV 20081231 printed-with-grant  
 STA GRANTED  
 DS R: AT CH ES IT LI  
 AI EP 2003-354076 A 20030415  
 AIO 03354076  
 AIT EPA Patent application  
 PRAI EP 2003-354033 A 20030415 (EPA3, 20090102, Y)  
 FR 2002-4722 A 20020416 (FRA, 20080515, Y)  
 FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
 PRAO 03354033 ; 0204722 ;  
 0204911  
 PRAIT EPA3 Prior application claimed for a division  
 FRA Patent application  
 IPCI B61B0012-02 [I,A ]; B61B0012-00 [I,A ]  
 B61B0012-00 [I,C\*]  
 EPC B61B0012-00B; B61B0012-02D  
 FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
 PIT; PRAI; TI

LEGAL STATUS

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 20040218 EPAC DIVISIONAL APPLICATION (ART. 76) OF:  
 EP 1354777 P  
 .....20081218  
 20040218 EPAK + DESIGNATED CONTRACTING STATES:  
 EP A1  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PT RO SE SI SK TR  
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 200850.....20081218  
 20040908 EP17P + REQUEST FOR EXAMINATION FILED  
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 EXA Examination, Search Report  
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 AT CH ES IT LI  
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 20041216 EPREG REFERENCE TO A NATIONAL CODE  
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 20081231 EPAK + DESIGNATED CONTRACTING STATES:  
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 200901.....20090102  
 20081231 EPREG REFERENCE TO A NATIONAL CODE  
 CHEP + CH: ENTRY IN THE NATIONAL PHASE  
 200903.....20090115

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 MEMBER 5  
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AN 57352954 INPADOCDB ED 20081120 EW 200847 UP 20081120 UW 200847 [Full-text](#)  
 FN 15975720  
 SFN 28676468  
 TI CABINA DE UNA INSTALACION DE TRANSPORTE DE CABLE AEREO QUE INCLUYE UN  
 ARMAZON METALICO DOTADO DE MONTAJES ACODADOS DE LONGITUD VARIABLE.  
 TL Spanish  
 IN VITTOZ, THIERRY; BREHMER, PATRICK  
 INS VITTOZ THIERRY, FR; BREHMER PATRICK, FR  
 PA SIGMA COMPOSITE  
 PAS SIGMA COMPOSITE  
 DT Patent  
 PI ES 2306847 T3 20081116 Spanish  
 PIT EST3 TRANSLATION OF GRANTED EUROPEAN PATENT (FORMER B3)  
 DAV 20081116 printed-with-grant  
 STA GRANTED  
 AI ES 2003-354033 T 20030415  
 AIO 03354033  
 AIT EST Translation  
 PRAI FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
 FR 2002-4722 A 20020416 (FRA, 20080515, Y)  
 PRAO 033540330204911 ; 0204722  
 PRAIT FRA Patent application  
 IPCI B61B0012-00 [I, A ] ; B61B0012-02 [I, A ]  
 B61B0012-00 [I, C\*]  
 EPC B61B0012-00B; B61B0012-02D  
 FA AI; AN; DAV; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI; PIT;  
 PRAI; TI

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 MEMBER 6  
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AN 27516187 INPADOCDB UP 20070405 UW 200714 [Full-text](#)  
 FN 15975720  
 SFN 28459868  
 TI Aerial transport cabin installation having metallic frame/cross parts  
 forming upper/lower cabin frame with intermediate zone rectangular  
 sections forming obtuse angle.  
 CABINE D'UNE INSTALLATION DE TRANSPORT A CABLE AERIEN COMPORTANT UNE  
 OSSATURE METALLIQUE DOTEE DE MONTANTS COUDES DE LONGUEUR VARIABLE.  
 TL English; French  
 IN BREHMER PATRICK  
 INS BREHMER PATRICK  
 PA SIGMA COMPOSITE  
 PAS SIGMA COMPOSITE, FR  
 DT Patent  
 PI FR 2838397 A1 20031017  
 PIT FRA1 APPLICATION FOR PATENT OF INVENTION, (FIRST PUBL.) [FROM 2,000,000]  
 DAV 20031017 examined-printed-without-grant  
 STA PRE-GRANT PUBLICATION

AI FR 2002-4722 A 20020416  
AIO 0204722  
AIT FRA Patent application  
PRAI FR 2002-4722 A 20020416 (FRA, 20080515, Y)  
PRAIT FRA Patent application  
REC 2. THERE ARE 2 CITED REFERENCES (1 PATENT, 1 NON PATENT) AVAILABLE FOR THIS RECORD.

REP US 4327648 A (SEA, pat, Cat: A)  
REN (1) None (APP)

IC.V 7  
ICM B61B012-00  
ICS B61D017-04  
IPCR B61B0012-00 [I, A ]; B61B0012-02 [I, A ]  
B61B0012-00 [I, C\*]

EPC B61B0012-00B; B61B0012-02D

AB The cabin installation has a metallic frame (1) with cross parts (2d, 2f) forming lower and upper parts of the cabin frame. Each mounting (6d) has rectangular sections forming obtuse angles in an intermediate zone.

AL English

AS transcript

ABFR <P>L'ossature métallique (1) de la cabine comprend des traverses (2d, 2f), formant des parties inférieure et supérieure de l'ossature, et des montants, reliant la partie supérieure à la partie inférieure de l'ossature. Chaque montant comporte deux sections rectilignes reliées par un coude et faisant entre elles un angle obtus prédéterminé. Les montants (6d) sont fabriqués par cintrage du coude et par découpe d'au moins une des sections rectilignes de montants standard. Ceci permet de simplifier la fabrication d'une gamme de cabines d'une installation de transport à câble aériens, de surface et/ou de hauteur modulable. </P>

AL French

AS national office

FA AB; ABFR; AI; AN; DAV; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; PA; PAS; PI; PIT; PRAI; REN; REP; TI

CHG ABFR A

AN 27516187 INPADOCDB [Full-text](#)

FN 15975720

SFN 28459868

TI CABINE D'UNE INSTALLATION DE TRANSPORT A CABLE AERIEN COMPORTANT UNE OSSATURE METALLIQUE DOTE DE MONTANTS COUDES DE LONGUEUR VARIABLE.

TL French

IN BREHMER PATRICK

INS BREHMER PATRICK

PA SIGMA COMPOSITE

PAS SIGMA COMPOSITE, FR

DT Patent

PI FR 2838397 B1 20040625

PIT FRB1 PATENT OF INVENTION (SECOND PUBLICATION) [FROM 2,000,000]

DAV 20040625 printed-with-grant

STA GRANTED

AI FR 2002-4722 A 20020416

AIO 0204722

AIT FRA Patent application

PRAI FR 2002-4722 A 20020416 (FRA, 20080515, Y)

PRAIT FRA Patent application

IC.V 7

ICM B61B012-00

ICS B61D017-04

IPCR B61B0012-00 [I, A ]; B61B0012-02 [I, A ]  
B61B0012-00 [I, C\*]

EPC B61B0012-00B; B61B0012-02D

FA AI; AN; DAV; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; PA; PAS; PI; PIT; PRAI; TI

MEMBER 7

AN 27516485 INPADOCDB UP 20070405 UW 200714 [Full-text](#)  
FN 15975720  
SFN 28686189  
TI Aerial transport cabin installation having metallic frame/cross parts forming upper/lower cabin frame with intermediate zone rectangular sections forming obtuse angle.  
CABINE POUR LE TRANSPORT AERIEN PAR CABLES.  
TL English; French  
IN VITTOZ THIERRY  
INS VITTOZ THIERRY  
PA SIGMA COMPOSITE  
PAS SIGMA COMPOSITE, FR  
DT Patent  
PI FR 2838696 A1 20031024  
PIT FRA1 APPLICATION FOR PATENT OF INVENTION, (FIRST PUBL.) [FROM 2,000,000]  
DAV 20031024 examined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI FR 2002-4911 A 20020419  
AIO 0204911  
AIT FRA Patent application  
PRAI FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
PRAIT FRA Patent application  
REC 4. THERE ARE 4 CITED REFERENCES (3 PATENT, 1 NON PATENT) AVAILABLE FOR THIS RECORD.  
REP US 953352 A (SEA, pat, Cat: A)  
US 4327648 A (SEA, pat, Cat: A)  
US 3797409 A (SEA, pat, Cat: A)  
REN (1) None (APP)  
IC.V 7  
ICM B61B012-02  
ICS B61D017-00  
IPCR B61B0012-00 [I,A ]; B61B0012-02 [I,A ]  
B61B0012-00 [I,C\*]  
EPC B61B0012-00B; B61B0012-02D  
AB The cabin installation has a metallic frame (1) with cross parts (2d,2f) forming lower and upper parts of the cabin frame. Each mounting (6d) has rectangular sections forming obtuse angles in an intermediate zone.  
AL English  
AS transcript  
ABFR <P>Une cabine (10) pour le transport aérien par câbles, comprend une ossature (11) associée à un palonnier (12) de suspension, ladite ossature étant composée de montants (13) verticaux en formes de profilés métalliques solidarifiés par des moyens d'assemblage à des traverses inférieures (14) et à des traverses supérieures (15) parallèles deux à deux. L'extrémité supérieure de chaque montant (13) est prolongée par une extension (20) faisant saillie du plan horizontal défini par les traverses supérieures (15). Un dispositif de fixation (21) est assemblé à l'extension (20) de chaque montant (13) en étant équipé d'un amortisseur (25) pour la liaison à un bras (26) du palonnier (12). </P>  
AL French  
AS national office  
FA AB; ABFR; AI; AN; DAV; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; PA; PAS; PI; PIT; PRAI; REN; REP; TI  
CHG ABFR A  
AN 27516485 INPADOCDB [Full-text](#)  
FN 15975720  
SFN 28686189  
TI CABINE POUR LE TRANSPORT AERIEN PAR CABLES.  
TL French

IN VITTOZ THIERRY  
INS VITTOZ THIERRY  
PA SIGMA COMPOSITE  
PAS SIGMA COMPOSITE, FR  
DT Patent  
PI FR 2838696 B1 20040625  
PIT FRB1 PATENT OF INVENTION (SECOND PUBLICATION) [FROM 2,000,000]  
DAV 20040625 printed-with-grant  
STA GRANTED  
AI FR 2002-4911 A 20020419  
AIO 0204911  
AIT FRA Patent application  
PRAI FR 2002-4911 A 20020419 (FRA, 20080515, Y)  
PRAIT FRA Patent application  
IC.V 7  
ICM B61B012-02  
ICS B61D017-00  
IPCR B61B0012-00 [I, A ]; B61B0012-02 [I, A ]  
B61B0012-00 [I, C\*]  
EPC B61B0012-00B; B61B0012-02D  
FA AI; AN; DAV; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; PA; PAS; PI; PIT;  
PRAI; TI

3 priorities, 7 applications, 11 publications

## BIBLS 表示形式

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAIT USP Provisional application

AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP, 20070830)  
PRAIT USP Provisional application

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AN 24159834 INPADOCDB Full-text  
20041020 EPAK + DESIGNATED CONTRACTING STATES:  
EP A2  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
AL HR LT LV MK  
20070829 EPAK + DESIGNATED CONTRACTING STATES:  
EP A3  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/22 20060101AFI20040727BHEP  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)

A47L 11/32 20060101ALI20070725BHEP  
 200735.....20070830  
 20071219 EP17P + REQUEST FOR EXAMINATION FILED  
 20071108  
 EXA Examination, Search Report  
 200751.....20071220  
 20080109 EP17Q + FIRST EXAMINATION REPORT  
 20071214  
 EXA Examination, Search Report  
 200802.....20080110  
 20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR  
 200819.....20080508

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AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
 FN 13537954  
 TI Manuelle Bodenkehrmaschine.  
 Manual floor sweeper.  
 Balai mecanique manuel.  
 TL German; English; French  
 IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
 INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
 PA TECHTRONIC INDUSTRIES CO., LTD.  
 PAS TECHTRONIC IND CO LTD, CN  
 DT Patent  
 PI EP 1468638 A2 20041020 English  
 PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
 DAV 20041020 unexamined-printed-without-grant  
 STA PRE-GRANT PUBLICATION  
 DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
 NL PL PT RO SE SI SK TR  
 XS R: AL HR LT LV MK  
 AI EP 2004-8854 A 20040414  
 AIT EPA Patent application  
 PRAI US 2003-463324P P 20030417 (USP, 20070830)  
 PRAIT USP Provisional application

AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
 FN 13537954  
 TI Manuelle Bodenkehrmaschine.  
 Manual floor sweeper.  
 Balai mecanique manuel.  
 TL German; English; French  
 IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
 INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
 PA TECHTRONIC INDUSTRIES CO., LTD.  
 PAS TECHTRONIC IND CO LTD, CN  
 DT Patent  
 PI EP 1468638 A3 20070829 English  
 PIT EPA3 SEARCH REPORT  
 DAV 20070829 supplemental-srep-reference  
 STA PRE-GRANT PUBLICATION  
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 NL PL PT RO SE SI SK TR  
 XS R: AL HR LT LV MK  
 AI EP 2004-8854 A 20040414  
 AIT EPA Patent application  
 PRAI US 2003-463324P P 20030417 (USP, 20070830)  
 PRAIT USP Provisional application

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MC NL PL PT RO SE SI SK TR

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AL HR LT LV MK

20070829 EPAK + DESIGNATED CONTRACTING STATES:  
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MC NL PL PT RO SE SI SK TR

20070829 EPRIC1 200735.....20070830  
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A47L 11/22 20060101AFI20040727BHEP

20070829 EPRIC1 200735.....20070830  
CLASSIFICATION (CORRECTION)  
A47L 11/32 20060101ALI20070725BHEP

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EXA Examination, Search Report  
200751.....20071220

20080109 EP17Q + FIRST EXAMINATION REPORT  
20071214  
EXA Examination, Search Report  
200802.....20080110

20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200819.....20080508

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### MEMBER 1

AN 18276957 INPADOCDB UP 20070726 UW 200730 Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS YIN SIN TIMMY HOK, HK; FAI HUI CHIU, HK; KAM HOI MA KEVIN, HK  
PA TECHTRONIC IND CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI CN 1550199 A 20041201  
PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.  
DAV 20041201 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI CN 2004-10035181 A 20040414  
AIT CNA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application

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AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application

AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English  
PIT EPA3 SEARCH REPORT  
DAV 20070829 supplemental-srep-reference

STA PRE-GRANT PUBLICATION  
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NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application

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20041020 EPAK + DESIGNATED CONTRACTING STATES:  
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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
20041020 EPAK + EXTENSION OF THE EUROPEAN PATENT TO  
AL HR LT LV MK  
20070829 EPAK + DESIGNATED CONTRACTING STATES:  
EP A3  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/22 20060101AF120040727BHEP  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/32 20060101AL120070725BHEP  
200735.....20070830  
20071219 EP17P + REQUEST FOR EXAMINATION FILED  
20071108  
EXA Examination, Search Report  
200751.....20071220  
20080109 EP17Q + FIRST EXAMINATION REPORT  
20071214  
EXA Examination, Search Report  
200802.....20080110  
20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200819.....20080508

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MEMBER 3  
-----

AN 49268576 INPADOCDB Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; HOI MA KEVIN KAM, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 20040205915 A1 20041021  
PIT USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]  
DAV 20041021 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI US 2003-728093 A 20031205  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)  
US 2003-463324P P 20030417 (USP)  
PRAIT USA Patent application  
USP Provisional application

AN 49268576 INPADOCDB Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; MA KEVIN KAM HOI  
INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; MA KEVIN KAM HOI, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 6912753 B2 20050705 English  
PIT USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT AS SECOND  
PUBLICATION [FROM 2001 ONWARDS]  
DAV 20050705 printed-with-grant  
STA GRANTED  
AI US 2003-728093 A 20031205  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)  
US 2003-463324P P 20030417 (USP)  
PRAIT USA Patent application  
USP Provisional application

LEGAL STATUS

AN 49268576 INPADOCDB Full-text  
20040316 USAS ASSIGNMENT  
TECHTRONIC INDUSTRIES CO., LTD. 388 CASTLE PEAK RO  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:SIN, TIMMY HOK  
YIN /AR:REEL/FRAME:015091/0023  
20031229  
CHG Change of Owner, Inventor, Applicant

2 priorities, 3 applications, 5 publications

PILS 表示形式

PI EP 1468638 A2 20041020  
PI EP 1468638 A3 20070829

LEGAL STATUS

AN 24159834 INPADOCDB Full-text

20041020 EPAK + DESIGNATED CONTRACTING STATES:  
EP A2  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
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EXA Examination, Search Report  
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PI CN 1550199 A 20041201

PI EP 1468638 A2 20041020

PI EP 1468638 A3 20070829

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EXA Examination, Search Report  
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PI US 20040205915 A1 20041021

PI US 6912753 B2 20050705

LEGAL STATUS

AN 49268576 INPADOCDB Full-text

20040316 USAS ASSIGNMENT  
TECHTRONIC INDUSTRIES CO., LTD. 388 CASTLE PEAK RO  
ASSIGNMENT OF ASSIGNORS INTEREST:ASSIGNORS:SIN, TIMMY HOK  
YIN /AR:REEL/FRAME:015091/0023  
20031229  
CHG Change of Owner, Inventor, Applicant

2 priorities, 3 applications, 5 publications

**FAMLS 表示形式**

TITLE: Manual floor sweeper.

**PATENT FAMILY INFORMATION**

AN 24159834 INPADOCDB

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| CN 1550199                 | A 20041201  | CN 2004-10035181           | A 20040414 |
| EP 1468638                 | A2 20041020 | EP 2004-8854               | A 20040414 |
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| US 20040205915             | A1 20041021 | US 2003-728093             | A 20031205 |
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| US 2003-463324P          | P 20030417 |
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2 priorities, 3 applications, 5 publications

LS 表示形式

LEGAL STATUS

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 US 2003-463324P P 20030417

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EXA Examination, Search Report  
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LS.F 表示形式

LEGAL STATUS

AN 49268576 INPADOCDB  
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                   YIN /AR:REEL/F:015091/0023  
                   20031229  
                   CHG Change of Owner, Inventor, Applicant  
 20040414 CNA APP Patent application  
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2 priorities, 3 applications, 5 publications

### IND 表示形式

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2 priorities, 3 applications, 5 publications

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2 priorities, 3 applications, 5 publications

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2 priorities, 3 applications, 5 publications

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2 priorities, 3 applications, 5 publications

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2 priorities, 3 applications, 5 publications

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2 priorities, 3 applications, 5 publications

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2 priorities, 3 applications, 5 publications

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US 2003-463324P P 20030417 (USP, 20070830, Y)

2 priorities, 3 applications, 5 publications

## FFAM 表示形式

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TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS YIN SIN TIMMY HOK, HK; FAI HUI CHIU, HK; KAM HOI MA KEVIN, HK  
PA TECHTRONIC IND CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI CN 1550199 A 20041201  
PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.  
DAV 20041201 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI CN 2004-10035181 A 20040414  
AIT CNA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application  
IC.V 7  
ICM A47L011-22  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
EPC A47L0011-32  
FA ABOR: AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPCR; PA; PAS; PI; PIT;  
PRAI; TI  
CHG EPC A

### MEMBER 2

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.  
IC.V 7  
ICM A47L011-22  
IPC I A47L0011-22 [I, A ]; A47L0011-32 [I, A ]; A47L0011-00 [I, C\*]  
EPC A47L0011-32  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;

PIT; PRAI; REP; TI  
 CHG AIOR A; PRAO A; PA A; IN A; DS A

AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
 FN 13537954  
 TI Manuelle Bodenkehrmaschine.  
 Manual floor sweeper.  
 Balai mecanique manuel.

TL German; English; French  
 IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
 INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
 PA TECHTRONIC INDUSTRIES CO., LTD.  
 PAS TECHTRONIC IND CO LTD, CN  
 DT Patent  
 PI EP 1468638 A3 20070829 English  
 PIT EPA3 SEARCH REPORT  
 DAV 20070829 supplemental-srep-reference  
 STA PRE-GRANT PUBLICATION  
 DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
 NL PL PT RO SE SI SK TR  
 XS R: AL HR LT LV MK  
 AI EP 2004-8854 A 20040414  
 AIT EPA Patent application  
 PRAI US 2003-463324P P 20030417 (USP)  
 PRAIT USP Provisional application  
 IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
 EPC A47L0011-32  
 FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
 PIT; PRAI; TI

LEGAL STATUS

AN 24159834 INPADOCDB Full-text  
 20041020 EPAK + DESIGNATED CONTRACTING STATES:  
 EP A2  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR

20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
 AL HR LT LV MK

20070829 EPAK + DESIGNATED CONTRACTING STATES:  
 EP A3  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR  
 200735.....20070830

20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
 A47L 11/22 20060101AFI20040727BHEP  
 200735.....20070830

20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
 A47L 11/32 20060101ALI20070725BHEP  
 200735.....20070830

20071219 EP17P + REQUEST FOR EXAMINATION FILED  
 20071108  
 EXA Examination, Search Report  
 200751.....20071220

20080109 EP17Q + FIRST EXAMINATION REPORT  
 20071214  
 EXA Examination, Search Report  
 200802.....20080110

20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR  
 200819.....20080508

MEMBER 3

AN 49268576 INPADOCDB Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; HOI MA KEVIN KAM, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 20040205915 A1 20041021  
PIT USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]  
DAV 20041021 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI US 2003-728093 A 20031205  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)  
US 2003-463324P P 20030417 (USP)  
PRAIT USA Patent application  
USP Provisional application  
IC.V 7  
ICM A47L011-32  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
NCL 015 481; X015 411  
EPC A47L0011-32  
FA AB; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPCR; NCL; PA; PAS; PI; PIT;  
PRAI; TI

AN 49268576 INPADOCDB Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; MA KEVIN KAM HOI  
INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; MA KEVIN KAM HOI, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI US 6912753 B2 20050705 English  
PIT USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT AS SECOND  
PUBLICATION [FROM 2001 ONWARDS]  
DAV 20050705 printed-with-grant  
STA GRANTED  
AI US 2003-728093 A 20031205  
AIT USA Patent application  
PRAI US 2003-728093 A 20031205 (USA)  
US 2003-463324P P 20030417 (USP)  
PRAIT USA Patent application  
USP Provisional application  
REC 11. THERE ARE 11 CITED REFERENCES (11 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.  
IC.V 7  
ICM A47L011-32  
ICS A47L011-33  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
NCL 15 481; X 15 411  
EPC A47L0011-32  
FA AB; AI; AN; DAV; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; LA; NCL; PA; PAS;  
PI; PIT; PRAI; REP; TI

## LEGAL STATUS

AN 49268576 INPADOCDB Full-text  
20040316 USAS ASSIGNMENT  
TECHTRONIC INDUSTRIES CO., LTD. 388 CASTLE PEAK RO  
ASSIGNMENT OF ASSIGNORS INTEREST:ASSIGNORS:SIN, TIMMY HOK  
YIN /AR:REEL/FRAME:015091/0023  
20031229  
CHG Change of Owner, Inventor, Applicant

2 priorities, 3 applications, 5 publications

## FFAM.pc 表示形式 (FFAM.EP)

## MEMBER 2

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.  
IC.V 7  
ICM A47L011-22  
IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; REP; TI  
CHG AIOR A; PRAO A; PA A; IN A; DS A  
  
AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A3 20070829 English

PIT EPA3 SEARCH REPORT  
 DAV 20070829 supplemental-srep-reference  
 STA PRE-GRANT PUBLICATION  
 DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
 NL PL PT RO SE SI SK TR  
 XS R: AL HR LT LV MK  
 AI EP 2004-8854 A 20040414  
 AIT EPA Patent application  
 PRAI US 2003-463324P P 20030417 (USP)  
 PRAIT USP Provisional application  
 IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
 EPC A47L0011-32  
 FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
 PIT; PRAI; TI

LEGAL STATUS

AN 24159834 INPADOCDB Full-text  
 20041020 EPAK + DESIGNATED CONTRACTING STATES:  
 EP A2  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR  
 20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
 AL HR LT LV MK  
 20070829 EPAK + DESIGNATED CONTRACTING STATES:  
 EP A3  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR  
 20070829 EPRIC1 200735.....20070830  
 CLASSIFICATION (CORRECTION)  
 A47L 11/22 20060101AFI20040727BHEP  
 20070829 EPRIC1 200735.....20070830  
 CLASSIFICATION (CORRECTION)  
 A47L 11/32 20060101ALI20070725BHEP  
 200735.....20070830  
 20071219 EP17P + REQUEST FOR EXAMINATION FILED  
 20071108  
 EXA Examination, Search Report  
 200751.....20071220  
 20080109 EP17Q + FIRST EXAMINATION REPORT  
 20071214  
 EXA Examination, Search Report  
 200802.....20080110  
 20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR  
 200819.....20080508

IFAM 表示形式

TITLE: Manual floor sweeper.

PATENT FAMILY INFORMATION  
AN 24159834 INPADOCDB

| +----- Publications -----+ |             | +----- Applications -----+ |            |
|----------------------------|-------------|----------------------------|------------|
| CN 1550199                 | A 20041201  | CN 2004-10035181           | A 20040414 |
| EP 1468638                 | A2 20041020 | EP 2004-8854               | A 20040414 |
| EP 1468638                 | A3 20070829 |                            |            |
| US 20040205915             | A1 20041021 | US 2003-728093             | A 20031205 |
| US 6912753                 | B2 20050705 |                            |            |

| +----- Priorities -----+ |            |
|--------------------------|------------|
| US 2003-463324P          | P 20030417 |
| US 2003-728093           | A 20031205 |

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| CHINA (CN) |  
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MEMBER 1

ACCESSION NUMBER: 18276957 INPADOCDB Full-text  
UP 20070726 UW 200730

TITLE: Manual floor sweeper.

TITLE LANGUAGE: English

INVENTOR(S):

NON-STANDARD.: SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
STANDARDIZED: YIN SIN TIMMY HOK, HK; FAI HUI CHIU, HK; KAM HOI MA  
KEVIN, HK

PATENT ASSIGNEE(S):

NON-STANDARD.: TECHTRONIC IND CO., LTD.  
STANDARDIZED: TECHTRONIC IND CO LTD, HK

PATENT INFORMATION:

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

CN 1550199 A 20041201

PATENT INFO. TYPE: CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.

DATE OF AVAILABILITY: 20041201 unexamined-printed-without-grant

PATENT STATUS: PRE-GRANT PUBLICATION

APPLICATION INFO.: CN 2004-10035181 A 20040414

APPL. INFO. TYPE: CNA Patent application

PRIORITY APPL. INFO.: US 2003-463324P P 20030417 (USP)

PRIO. APPL. INFO. TYPE: USP Provisional application

IPC VERSION(1-7): 7

INT. PATENT CLASSIF.:

MAIN: A47L011-22 (not assigned by patent authority)

IPC RECLASSIF. (ADV): A47L0011-32 [I, A]

IPC RECLASSIF. (CORE): A47L0011-00 [I, C\*]

EPC CLASSIF. (ECLA): A47L0011-32

FIELD AVAILABILITY: ABOR; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPCR;

PA; PAS; PI; PIT; PRAI; TI

UPDATE CHANGES: EPC A

MEMBER 2

ACCESSION NUMBER: 24159834 INPADOCDB Full-text  
UP 20080417 UW 200816

TITLE: Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.

TITLE LANGUAGE: German; English; French

INVENTOR(S) :

NON-STANDARD. : SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
STANDARDIZED: SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI  
KEVIN, HK

PATENT ASSIGNEE(S) :

NON-STANDARD. : TECHTRONIC INDUSTRIES CO., LTD.  
STANDARDIZED: TECHTRONIC IND CO LTD, CN

PATENT INFORMATION:

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

|            |    |                  |
|------------|----|------------------|
| EP 1468638 | A2 | 20041020 English |
|------------|----|------------------|

PATENT INFO. TYPE: EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT

DATE OF AVAILABILITY: 20041020 unexamined-printed-without-grant

PATENT STATUS: PRE-GRANT PUBLICATION

DESIGNATED STATES:

R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI  
LU MC NL PL PT RO SE SI SK TR

EXTENSION STATES:

R: AL HR LT LV MK

APPLICATION INFO. : EP 2004-8854 A 20040414

APPL. INFO. TYPE: EPA Patent application

PRIORITY APPL. INFO. : US 2003-463324P P 20030417 (USP)

PRIO. APPL. INFO. TYPE: USP Provisional application

CITED PATENT REF. : US 2625698 A (SEA, pat, Cat: X)

DE 293744 C (SEA, pat, Cat: X)

CH 214883 A (SEA, pat, Cat: A)CITED

REFERENCE COUNT: 3. THERE ARE 3 CITED REFERENCES (3

PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD.

IPC VERSION(1-7) :

7

INT. PATENT CLASSIF. :

MAIN: A47L011-22 (not assigned by patent authority)

IPC ORIGINAL (ADV) : A47L0011-22 [I,A ] ; A47L0011-32 [I,A ]

IPC ORIGINAL (CORE) : A47L0011-00 [I,C\*]

EPC CLASSIF. (ECLA) : A47L0011-32

ABSTRACT (ENGLISH) :

A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.

ABSTRACT LANGUAGE: English

ABSTRACT SOURCE: EPO

FIELD AVAILABILITY: AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI;

LA; PA; PAS; PI; PIT; PRAI; REP; TI

UPDATE CHANGES:

AIOR A; PRAO A; PA A; IN A; DS A

ACCESSION NUMBER: 24159834 INPADOCDB Full-text

ED 20070830 EW 200735 UP 20070830 UW 200735

TITLE: Manuelle Bodenkehrmaschine.

Manual floor sweeper.

Balai mecanique manuel.

TITLE LANGUAGE: German; English; French  
 INVENTOR(S):  
 NON-STANDARD.: SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
 STANDARDIZED: SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK

PATENT ASSIGNEE(S):  
 NON-STANDARD.: TECHTRONIC INDUSTRIES CO., LTD.  
 STANDARDIZED: TECHTRONIC IND CO LTD, CN  
 PATENT INFORMATION:

| NUMBER     | KIND | DATE             |
|------------|------|------------------|
| EP 1468638 | A3   | 20070829 English |

PATENT INFO. TYPE: EPA3 SEARCH REPORT  
 DATE OF AVAILABILITY: 20070829 supplemental-srep-reference  
 PATENT STATUS: PRE-GRANT PUBLICATION  
 DESIGNATED STATES:

R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI  
 LU MC NL PL PT RO SE SI SK TR

EXTENSION STATES: R: AL HR LT LV MK  
 APPLICATION INFO.: EP 2004-8854 A 20040414

APPL. INFO. TYPE: EPA Patent application  
 PRIORITY APPL. INFO.: US 2003-463324P P 20030417 (USP)  
 PRIO. APPL. INFO. TYPE: USP Provisional application

IPC ORIGINAL (ADV): A47L0011-22 [I,A ]; A47L0011-32 [I,A ]  
 IPC ORIGINAL (CORE): A47L0011-00 [I,C\*]

EPC CLASSIF. (ECLA): A47L0011-32  
 FIELD AVAILABILITY: AI; AN; DAV; DS; DT; ED; EPG; EW; IN; INS; IPC; IPCI;  
 LA; PA; PAS; PI; PIT; PRAI; TI

LEGAL STATUS

AN 24159834 INPADOCDB Full-text

20041020 EPAK + DESIGNATED CONTRACTING STATES:  
 EP A2  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR

20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
 AL HR LT LV MK

20070829 EPAK + DESIGNATED CONTRACTING STATES:  
 EP A3  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR

20070829 EPRIC1 200735.....20070830  
 CLASSIFICATION (CORRECTION)  
 A47L 11/22 20060101AFI20040727BHEP

20070829 EPRIC1 200735.....20070830  
 CLASSIFICATION (CORRECTION)  
 A47L 11/32 20060101ALI20070725BHEP

20071219 EP17P + REQUEST FOR EXAMINATION FILED  
 20071108  
 EXA Examination, Search Report  
 200751.....20071220

20080109 EP17Q + FIRST EXAMINATION REPORT  
 20071214  
 EXA Examination, Search Report  
 200802.....20080110

20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR  
 200819.....20080508

UNITED STATES OF AMERICA (US)

MEMBER 3

ACCESSION NUMBER: 49268576 INPADOCDB Full-text  
TITLE: Manual floor sweeper.  
TITLE LANGUAGE: English  
INVENTOR(S):  
NON-STANDARD.: SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
STANDARDIZED.: SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; HOI MA KEVIN KAM, HK

PATENT ASSIGNEE(S):  
NON-STANDARD.: TECHTRONIC INDUSTRIES CO., LTD.  
STANDARDIZED.: TECHTRONIC IND CO LTD, HK

PATENT INFORMATION:

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

|                         |   |                  |
|-------------------------|---|------------------|
|                         | US 20040205915  | A1 20041021      |
| PATENT INFO. TYPE:      | USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS] |                  |
| DATE OF AVAILABILITY:   | 20041021 unexamined-printed-without-grant                   |                  |
| PATENT STATUS:          | PRE-GRANT PUBLICATION                                       |                  |
| APPLICATION INFO.:      | US 2003-728093  | A 20031205       |
| APPL. INFO. TYPE:       | USA Patent application                                      |                  |
| PRIORITY APPL. INFO.:   | US 2003-728093  | A 20031205 (USA) |
|                         | US 2003-463324P   | P 20030417 (USP) |
| PRI0. APPL. INFO. TYPE: | USA Patent application                                      |                  |
|                         | USP Provisional application                                 |                  |

IPC VERSION(1-7):

7

INT. PATENT CLASSIF.:

MAIN: A47L011-32 (not assigned by patent authority)  
IPC RECLASSIF. (ADV): A47L0011-32 [I, A ]  
IPC RECLASSIF. (CORE): A47L0011-00 [I, C\*]  
NAT. PATENT CLASSIF. : 015 481; X015 411  
EPC CLASSIF. (ECLA): A47L0011-32

ABSTRACT (ENGLISH): A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.

ABSTRACT LANGUAGE: English

ABSTRACT SOURCE: national office

FIELD AVAILABILITY: AB; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPCR;  
NCL; PA; PAS; PI; PIT; PRAI; TI

ACCESSION NUMBER: 49268576 INPADOCDB Full-text  
TITLE: Manual floor sweeper.  
TITLE LANGUAGE: English  
INVENTOR(S):  
NON-STANDARD.: SIN TIMMY HOK YIN; HUI CHIU FAI; MA KEVIN KAM HOI  
STANDARDIZED.: SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; MA KEVIN KAM HOI, HK

PATENT ASSIGNEE(S):  
NON-STANDARD.: TECHTRONIC INDUSTRIES CO., LTD.  
STANDARDIZED.: TECHTRONIC IND CO LTD, HK

PATENT INFORMATION:

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

|            |    |                  |
|------------|----|------------------|
| US 6912753 | B2 | 20050705 English |
|------------|----|------------------|

PATENT INFO. TYPE: USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT  
AS SECOND PUBLICATION [FROM 2001 ONWARDS]  
DATE OF AVAILABILITY: 20050705 printed-with-grant  
PATENT STATUS: GRANTED  
APPLICATION INFO.: US 2003-728093 A 20031205  
APPL. INFO. TYPE: USA Patent application  
PRIORITY APPL. INFO.: US 2003-728093 A 20031205 (USA)  
US 2003-463324P P 20030417 (USP)  
PRIO. APPL. INFO. TYPE: USA Patent application  
USP Provisional application  
CITED PATENT REF.: US 642172 A (SEA, pat)  
US 1972870 A (SEA, pat)  
US 2563189 A (SEA, pat)  
US 2587038 A (SEA, pat)  
US 2625698 A (SEA, pat)  
US 2783487 A (SEA, pat)  
US 3602932 A (SEA, pat)  
US 3638267 A (SEA, pat)  
US 4007508 A (APP, pat)  
US 4823422 A (APP, pat)  
US 5239721 A (APP, pat) CITED REFERENCE  
COUNT: 11. THERE ARE 11 CITED REFERENCES (11 PATENT,  
0 NON PATENT) AVAILABLE FOR THIS RECORD.

IPC VERSION(1-7): 7

INT. PATENT CLASSIF.:

MAIN: A47L011-32 (not assigned by patent authority)

SECONDARY: A47L011-33

IPC RECLASSIF. (ADV): A47L0011-32 [I,A]

IPC RECLASSIF. (CORE): A47L0011-00 [I,C\*]

NAT. PATENT CLASSIF.: 15 481; X 15 411

EPC CLASSIF. (ECLA): A47L0011-32

ABSTRACT (ENGLISH): A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.

ABSTRACT LANGUAGE: English

ABSTRACT SOURCE: national office

FIELD AVAILABILITY: AB; AI; AN; DAV; DT; EPC; ICM; ICS; IN; INS; IPC;  
IPCR; LA; NCL; PA; PAS; PI; PIT; PRAI; REP; TI

LEGAL STATUS

AN 49268576 INPADOCDB Full-text

20040316 USAS

ASSIGNMENT

TECHTRONIC INDUSTRIES CO., LTD. 388 CASTLE PEAK RO

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:SIN, TIMMY HOK

YIN /AR:REEL/FRA:015091/0023

20031229

CHG Change of Owner, Inventor, Applicant

2 priorities, 3 applications, 5 publications

LFAM 表示形式

MEMBER 1

AN 18276957 INPADOCDB UP 20070726 UW 200730 Full-text  
FN 13537954  
PI CN 1550199 A 20041201

MEMBER 2

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
PI EP 1468638 A2 20041020

AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
FN 13537954  
PI EP 1468638 A3 20070829

LEGAL STATUS

AN 24159834 INPADOCDB Full-text  
20041020 EPAK + DESIGNATED CONTRACTING STATES:  
EP A2  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
20041020 EPAK + EXTENSION OF THE EUROPEAN PATENT TO  
AL HR LT LV MK  
20070829 EPAK + DESIGNATED CONTRACTING STATES:  
EP A3  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/22 20060101AF120040727BHEP  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/32 20060101AL120070725BHEP  
200735.....20070830  
20071219 EP17P + REQUEST FOR EXAMINATION FILED  
20071108  
EXA Examination, Search Report  
200751.....20071220  
20080109 EP17Q + FIRST EXAMINATION REPORT  
20071214  
EXA Examination, Search Report  
200802.....20080110  
20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200819.....20080508

MEMBER 3

AN 49268576 INPADOCDB Full-text  
FN 13537954  
PI US 20040205915 A1 20041021

AN 49268576 INPADOCDB Full-text  
FN 13537954  
PI US 6912753 B2 20050705

LEGAL STATUS

AN 49268576 INPADOCDB Full-text  
20040316 USAS ASSIGNMENT  
TECHTRONIC INDUSTRIES CO., LTD. 388 CASTLE PEAK RO  
ASSIGNMENT OF ASSIGNORS INTEREST:ASSIGNORS:SIN, TIMMY HOK  
YIN /AR:REEL/FRAME:015091/0023  
20031229  
CHG Change of Owner, Inventor, Applicant

2 priorities, 3 applications, 5 publications

**MFAM 表示形式**

-----  
MEMBER 1  
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AN 18276957 INPADOCDB UP 20070726 UW 200730 Full-text  
FN 13537954  
TI Manual floor sweeper.  
TL English  
IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
INS YIN SIN TIMMY HOK, HK; FAI HUI CHIU, HK; KAM HOI MA KEVIN, HK  
PA TECHTRONIC IND CO., LTD.  
PAS TECHTRONIC IND CO LTD, HK  
DT Patent  
PI CN 1550199 A 20041201  
PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.  
DAV 20041201 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
AI CN 2004-10035181 A 20040414  
AIT CNA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application  
IC.V 7  
ICM A47L011-22  
IPCR A47L0011-32 [I, A ]  
A47L0011-00 [I, C\*]  
EPC A47L0011-32  
FA ABOR; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPGR; PA; PAS; PI; PIT;  
PRAI; TI  
CHG EPC A

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MEMBER 2  
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AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
FN 13537954  
TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
TL German; English; French  
IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
PA TECHTRONIC INDUSTRIES CO., LTD.  
PAS TECHTRONIC IND CO LTD, CN  
DT Patent  
PI EP 1468638 A2 20041020 English  
PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
DAV 20041020 unexamined-printed-without-grant  
STA PRE-GRANT PUBLICATION  
DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC

NL PL PT RO SE SI SK TR  
 XS R: AL HR LT LV MK  
 AI EP 2004-8854 A 20040414  
 AIT EPA Patent application  
 PRAI US 2003-463324P P 20030417 (USP)  
 PRAIT USP Provisional application  
 REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD.  
 REP US 2625698 A (SEA, pat, Cat: X)  
 DE 293744 C (SEA, pat, Cat: X)  
 CH 214883 A (SEA, pat, Cat: A)  
 IC.V 7  
 ICM A47L011-22  
 IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
 EPC A47L0011-32  
 AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
 AL English  
 AS EPO  
 FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI; PIT; PRAI; REP; TI  
 CHG AIOR A; PRAO A; PA A; IN A; DS A

AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
 FN 13537954  
 TI Manuelle Bodenkehrmaschine.  
 Manual floor sweeper.  
 Balai mecanique manuel.  
 TL German; English; French  
 IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
 INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
 PA TECHTRONIC INDUSTRIES CO., LTD.  
 PAS TECHTRONIC IND CO LTD, CN  
 DT Patent  
 PI EP 1468638 A3 20070829 English  
 PIT EPA3 SEARCH REPORT  
 DAV 20070829 supplemental-srep-reference  
 STA PRE-GRANT PUBLICATION  
 DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
 NL PL PT RO SE SI SK TR  
 XS R: AL HR LT LV MK  
 AI EP 2004-8854 A 20040414  
 AIT EPA Patent application  
 PRAI US 2003-463324P P 20030417 (USP)  
 PRAIT USP Provisional application  
 IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
 EPC A47L0011-32  
 FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI; PIT; PRAI; TI

LEGAL STATUS

AN 24159834 INPADOCDB Full-text  
 20041020 EPAX + DESIGNATED CONTRACTING STATES:  
 EP A2  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR  
 20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
 AL HR LT LV MK  
 20070829 EPAX + DESIGNATED CONTRACTING STATES:  
 EP A3  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU

MC NL PL PT RO SE SI SK TR  
 200735.....20070830  
 20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
 A47L 11/22 20060101AFI20040727BHEP  
 200735.....20070830  
 20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
 A47L 11/32 20060101ALI20070725BHEP  
 200735.....20070830  
 20071219 EP17P + REQUEST FOR EXAMINATION FILED  
 20071108  
 EXA Examination, Search Report  
 200751.....20071220  
 20080109 EP17Q + FIRST EXAMINATION REPORT  
 20071214  
 EXA Examination, Search Report  
 200802.....20080110  
 20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
 MC NL PL PT RO SE SI SK TR  
 200819.....20080508

-----  
 MEMBER 3  
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AN 49268576 INPADOCDB Full-text  
 FN 13537954  
 TI Manual floor sweeper.  
 TL English  
 IN SIN TIMMY HOK YIN; HUI CHIU FAI; HOI MA KEVIN KAM  
 INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; HOI MA KEVIN KAM, HK  
 PA TECHTRONIC INDUSTRIES CO., LTD.  
 PAS TECHTRONIC IND CO LTD, HK  
 DT Patent  
 PI US 20040205915 A1 20041021  
 PIT USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]  
 DAV 20041021 unexamined-printed-without-grant  
 STA PRE-GRANT PUBLICATION  
 AI US 2003-728093 A 20031205  
 AIT USA Patent application  
 PRAI US 2003-728093 A 20031205 (USA)  
 US 2003-463324P P 20030417 (USP)  
 PRAIT USA Patent application  
 USP Provisional application  
 IC.V 7  
 ICM A47L011-32  
 IPCR A47L0011-32 [I, A ]  
 A47L0011-00 [I, C\*]  
 NCL 015 481; X015 411  
 EPC A47L0011-32  
 AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
 AL English  
 AS national office  
 FA AB; AI; AN; DAV; DT; EPC; ICM; IN; INS; IPC; IPCR; NCL; PA; PAS; PI; PIT;  
 PRAI; TI

AN 49268576 INPADOCDB Full-text  
 FN 13537954  
 TI Manual floor sweeper.  
 TL English  
 IN SIN TIMMY HOK YIN; HUI CHIU FAI; MA KEVIN KAM HOI  
 INS SIN TIMMY HOK YIN, HK; HUI CHIU FAI, HK; MA KEVIN KAM HOI, HK  
 PA TECHTRONIC INDUSTRIES CO., LTD.  
 PAS TECHTRONIC IND CO LTD, HK  
 DT Patent  
 PI US 6912753 B2 20050705 English  
 PIT USB2 REEXAM. CERTIF., N-ND REEXAM. or GRANTED PATENT AS SECOND PUBLICATION [FROM 2001 ONWARDS]  
 DAV 20050705 printed-with-grant  
 STA GRANTED  
 AI US 2003-728093 A 20031205  
 AIT USA Patent application  
 PRAI US 2003-728093 A 20031205 (USA)  
 US 2003-463324P P 20030417 (USP)  
 PRAIT USA Patent application  
 USP Provisional application  
 REC 11. THERE ARE 11 CITED REFERENCES (11 PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD.  
 REP US 642172 A (SEA, pat)  
 US 1972870 A (SEA, pat)  
 US 2563189 A (SEA, pat)  
 US 2587038 A (SEA, pat)  
 US 2625698 A (SEA, pat)  
 US 2783487 A (SEA, pat)  
 US 3602932 A (SEA, pat)  
 US 3638267 A (SEA, pat)  
 US 4007508 A (APP, pat)  
 US 4823422 A (APP, pat)  
 US 5239721 A (APP, pat)  
 IC.V 7  
 ICM A47L011-32  
 ICS A47L011-33  
 IPCR A47L0011-32 [I, A ]  
 A47L0011-00 [I, C\*]  
 NCL 15 481; X 15 411  
 EPC A47L0011-32  
 AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rotatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
 AL English  
 AS national office  
 FA AB; AI; AN; DAV; DT; EPC; ICM; ICS; IN; INS; IPC; IPCR; LA; NCL; PA; PAS; PI; PIT; PRAI; REP; TI

LEGAL STATUS

AN 49268576 INPADOCDB Full-text  
 20040316 USAS ASSIGNMENT  
 TECHTRONIC INDUSTRIES CO., LTD. 388 CASTLE PEAK RO  
 ASSIGNMENT OF ASSIGNORS INTEREST:ASSIGNORS:SIN, TIMMY HOK  
 YIN /AR:REEL/FRAME:015091/0023  
 20031229  
 CHG Change of Owner, Inventor, Applicant

2 priorities, 3 applications, 5 publications

MFAM.pc 表示形式 (MFAM.EP)

MEMBER 2

AN 24159834 INPADOCDB UP 20080417 UW 200816 Full-text  
 FN 13537954  
 TI Manuelle Bodenkehrmaschine.  
 Manual floor sweeper.  
 Balai mecanique manuel.  
 TL German; English; French  
 IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
 INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
 PA TECHTRONIC INDUSTRIES CO., LTD.  
 PAS TECHTRONIC IND CO LTD, CN  
 DT Patent  
 PI EP 1468638 A2 20041020 English  
 PIT EPA2 APPLICATION PUBLISHED WITHOUT SEARCH REPORT  
 DAV 20041020 unexamined-printed-without-grant  
 STA PRE-GRANT PUBLICATION  
 DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
 NL PL PT RO SE SI SK TR  
 XS R: AL HR LT LV MK  
 AI EP 2004-8854 A 20040414  
 AIT EPA Patent application  
 PRAI US 2003-463324P P 20030417 (USP)  
 PRAIT USP Provisional application  
 REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR  
 THIS RECORD.  
 REP US 2625698 A (SEA, pat, Cat: X)  
 DE 293744 C (SEA, pat, Cat: X)  
 CH 214883 A (SEA, pat, Cat: A)  
 IC.V 7  
 ICM A47L011-22  
 IPCI A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
 EPC A47L0011-32  
 AB A manual floor sweeper includes a housing and a brush roller mounted within the housing and rocatable in a sweeping direction. A first drive member is fixed to the brush roller. A second drive member is mounted rotatably with the housing and engagable with the first drive member. A drive carriage is movable between a first position for engaging the first drive wheel when the sweeper is moved in a first direction so as to rotate the brush roller in the sweeping direction and a second position when the sweeper is moved in a second direction for engaging the second drive member so as to move the brush roller in the sweeping direction.  
 AL English  
 AS EPO  
 FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
 PIT; PRAI; REP; TI  
 CHG AIOR A; PRAO A; PA A; IN A; DS A  
 AN 24159834 INPADOCDB ED 20070830 EW 200735 UP 20070830 UW 200735 Full-text  
 FN 13537954  
 TI Manuelle Bodenkehrmaschine.  
 Manual floor sweeper.  
 Balai mecanique manuel.  
 TL German; English; French  
 IN SIN HOK YIN, TIMMY; HUI, CHUI FAI; MA KAM HOI, KEVIN  
 INS SIN HOK YIN TIMMY, HK; HUI CHUI FAI, HK; MA KAM HOI KEVIN, HK  
 PA TECHTRONIC INDUSTRIES CO., LTD.  
 PAS TECHTRONIC IND CO LTD, CN  
 DT Patent  
 PI EP 1468638 A3 20070829 English  
 PIT EPA3 SEARCH REPORT  
 DAV 20070829 supplemental-srep-reference  
 STA PRE-GRANT PUBLICATION

DS R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC  
NL PL PT RO SE SI SK TR  
XS R: AL HR LT LV MK  
AI EP 2004-8854 A 20040414  
AIT EPA Patent application  
PRAI US 2003-463324P P 20030417 (USP)  
PRAIT USP Provisional application  
IPC1 A47L0011-22 [I,A ]; A47L0011-32 [I,A ]; A47L0011-00 [I,C\*]  
EPC A47L0011-32  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; TI

LEGAL STATUS

AN 24159834 INPADOCDB Full-text  
20041020 EPAK + DESIGNATED CONTRACTING STATES:  
EP A2  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
20041020 EPAX + EXTENSION OF THE EUROPEAN PATENT TO  
AL HR LT LV MK  
20070829 EPAK + DESIGNATED CONTRACTING STATES:  
EP A3  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/22 20060101AFI20040727BHEP  
200735.....20070830  
20070829 EPRIC1 CLASSIFICATION (CORRECTION)  
A47L 11/32 20060101ALI20070725BHEP  
200735.....20070830  
20071219 EP17P + REQUEST FOR EXAMINATION FILED  
20071108  
EXA Examination, Search Report  
200751.....20071220  
20080109 EP17Q + FIRST EXAMINATION REPORT  
20071214  
EXA Examination, Search Report  
200802.....20080110  
20080507 EPAKX + PAYMENT OF DESIGNATION FEES  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU  
MC NL PL PT RO SE SI SK TR  
200819.....20080508

### PATS 表示形式

PI EP 1468638 A3 20070829

### PATS.M 表示形式

PI EP 1468638 A2 20041020  
REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
CH 214883 A (SEA, pat, Cat: A)  
PI EP 1468638 A3 20070829

### PATS.F 表示形式

PI CN 1550199 A 20041201  
PI EP 1468638 A2 20041020  
REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
CH 214883 A (SEA, pat, Cat: A)  
PI EP 1468638 A3 20070829  
PI US 20040205915 A1 20041021  
PI US 6912753 B2 20050705  
REP US 642172 A (SEA, pat)  
US 1972870 A (SEA, pat)  
US 2563189 A (SEA, pat)  
US 2587038 A (SEA, pat)  
US 2625698 A (SEA, pat)  
US 2783487 A (SEA, pat)  
US 3602932 A (SEA, pat)  
US 3638267 A (SEA, pat)  
US 4007508 A (APP, pat)  
US 4823422 A (APP, pat)  
US 5239721 A (APP, pat)

2 priorities, 3 applications, 5 publications

### TIP1 表示形式

TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
PI EP 1468638 A3 20070829

### TIP1.M 表示形式

TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
PI EP 1468638 A2 20041020

TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
PI EP 1468638 A3 20070829

### TIP1.F 表示形式

TI Manual floor sweeper.  
PI CN 1550199 A 20041201

TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
PI EP 1468638 A2 20041020

TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.  
PI EP 1468638 A3 20070829

TI Manual floor sweeper.  
PI US 20040205915 A1 20041021

TI Manual floor sweeper.  
PI US 6912753 B2 20050705

2 priorities, 3 applications, 5 publications

### PIRE 表示形式

PI EP 1468638 A2 20041020  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD.  
REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
CH 214883 A (SEA, pat, Cat: A)  
PI EP 1468638 A3 20070829

### PIRE.M 表示形式

PI EP 1468638 A2 20041020  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD.  
REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
CH 214883 A (SEA, pat, Cat: A)  
PI EP 1468638 A3 20070829

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PI CN 1550199 A 20041201  
PI EP 1468638 A2 20041020  
REC 3. THERE ARE 3 CITED REFERENCES (3 PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD.  
REP US 2625698 A (SEA, pat, Cat: X)  
DE 293744 C (SEA, pat, Cat: X)  
CH 214883 A (SEA, pat, Cat: A)  
PI EP 1468638 A3 20070829  
PI US 20040205915 A1 20041021  
PI US 6912753 B2 20050705  
REC 11. THERE ARE 11 CITED REFERENCES (11 PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD.  
REP US 642172 A (SEA, pat)  
US 1972870 A (SEA, pat)  
US 2563189 A (SEA, pat)  
US 2587038 A (SEA, pat)  
US 2625698 A (SEA, pat)  
US 2783487 A (SEA, pat)  
US 3602932 A (SEA, pat)  
US 3638267 A (SEA, pat)  
US 4007508 A (APP, pat)  
US 4823422 A (APP, pat)  
US 5239721 A (APP, pat)

2 priorities, 3 applications, 5 publications

**SCAN 表示形式** (回答番号指定なしのランダム表示)

TI Manuelle Bodenkehrmaschine.  
Manual floor sweeper.  
Balai mecanique manuel.

**TRIAL 表示形式**

AN 24159834 INPADOCDB UP 20080417  
TI Manuelle Bodenkehrmaschine.  
FA AB; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; REP; TI

AN 24159834 INPADOCDB UP 20070830  
TI Manuelle Bodenkehrmaschine.  
FA AI; AN; DAV; DS; DT; ED; EPC; EW; IN; INS; IPC; IPCI; LA; PA; PAS; PI;  
PIT; PRAI; TI