

1) Family number: 32682051 (US2006048318A)

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Title: MULTI-SURFACES CLEANING IMPLEMENT

Abstract: A cleaning implement is provided for cleaning surfaces with a cleaning substrate. The cleaning implement includes a handle connected via a universal joint to a mop head. The mop head includes a bumper pad, which is made of a deformable and nonabsorbent material. The bumper pad can be deformed in the Z direction and within the X-Y plane. The cleaning implement can also include a motor for causing a portion of the mop head to move relative to the handle.

Classifications:

International (IPC 8-9): A47L11/02 A47L11/12 A47L11/28 A47L11/284 A47L11/29 A47L13/00 A47L13/16 A47L13/17 A47L13/20 A47L13/24 A47L13/254 A47L13/256 A47L13/42 A47L13/44 A47L13/48 A47L25/00 (Advanced/Invention);

A47L11/00 A47L13/20 A47L25/00 (Core/Invention)

International (IPC 1-7): A47L13/00 A47L13/20 A47L13/254

CPC: A47L11/12 A47L11/284 A47L11/4036 A47L11/4069

A47L11/4075 A47L13/20 A47L13/256 A47L13/24 B25G3/38

European: A47L1/15 A47L11/12 A47L11/284 A47L11/40F

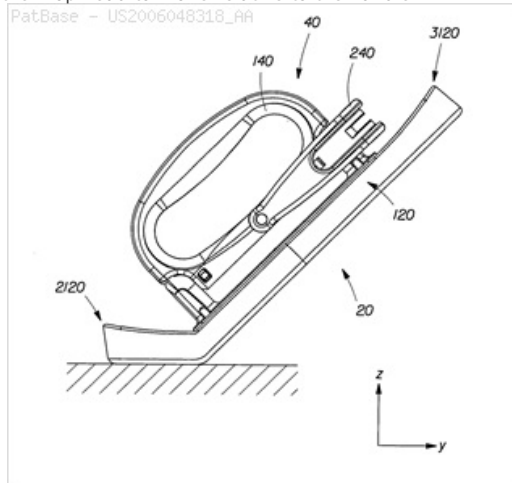
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A47L13/256 A47L13/42 A47L13/44 B25G3/38

US: 15/209.1 15/228 15/228S 15/231 15/231S 15/49.1 15/97.1 15/97.100P 15/98 15/98S

JP F-Term: 3B074 3B074/AA03 3B074/AA08 3B074/AB01 3B074/AB02 3B074/BB01 3B074/CC03 3B074/EE01 3B074/EE02 3B073 3B074/AA02 3B074/AC02 3B083

JP F-Index: A47L13/16/A A47L13/16/B A47L13/17/A A47L13/20/A A47L13/24/Z A47L13/254 A47L11/12 A47L11/284 A47L13/20/B A47L25/00/D

**Family:**

Publication number	Publication date	Application number	Application date
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CA2591393 C	20110517	CA20052591393	20051215
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CA2841726 C	20170321	CA20042841726	20040903
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CN1845697 A	20061011	CN200480025397	20040903
EP1659916 A2	20060531	EP20040783096	20040903
EP1824372 A2	20070829	EP20050854294	20051215
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JP2008522771 T2	20080703	JP20070545742T	20051215
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US2006059639 AA	20060323	US20050070145	20050302
US7516508 BB	20090414	US20050070145	20050302
US7536743 BB	20090526	US20040934875	20040903
WO05023080 A2	20050317	WO2004US28737	20040903
WO05023080 A3	20050602	WO2004US28737	20040903
WO06066058 A2	20060622	WO2005US45533	20051215
WO06066058 A3	20061109	WO2005US45533	20051215

Priority:

US20030499851P 20030903	US20040572146P 20040518	CA20042537584 20040903
CA20042751193 20040903	US20040934875 20040903	WO2004US28737 20040903
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CA20112537584 20110919	CA20142751193 20140220	

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Inventor(s): RESUELLO ILDEFONSO MJR ; CROWE THOMAS ; STACKPOLE A BJR ; DAVIS WILSON JENNIFER ; GOH JEROME ; GOH JEROME JG ; KURJAN CHRISTINE ; LANG ERIN ; ROHRBAUGH ELIZABETH ; HALTER JEFFREY ; H ZENKICH RAMONA HALTER JEFFREY THOMAS WATKINS ANT ; H ZENKICH RAMONA HALTER JEFFREY THOMAS WATKINS ; GOH JEROME JOO GE KURJAN CHRISTINE MARIE DAVIS ; NEWMAN MATTHEW ; STACKPOLE ARTHUR ; STACKPOLE A ; STACKPOLE A BRYON ; STACKPOLE ARTHUR BJR ; VERBIEST JAN HENDIK ; WATKINS ANTHONY ; WURZELBACHER TRACEY ; SAYLER DAVID ; RESUELLO ILDEFONSO ; PARK ERIC

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

2) Family number: 28143647 (US2001042278A)

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Title: HOLDER FOR SECURING A MOP AT THE END OF A HANDLE

Abstract: A holder is provided for securing a mop at the end of a handle, a plurality of relatively moveable, absorbent strips made of a textile material being affixed as a result of being clamped between a headpiece and a plate, essentially at right angles to the longitudinal axis of the handle. In the region where the strips are fastened, the holder has a surface area that has a greater length than width and the boundary edges of which are curved to form two corners without changing the direction of the curvature.

Classifications:

International (IPC 8-9): A47L A47L13/10 A47L13/20 A47L13/24 A47L13/254 A47L13/44 B25G3/00 B25G3/12 (Advanced/Invention); A47L13/10 A47L13/20 B25G3/00 (Core/Invention)

International (IPC 1-7): A47L13/10 A47L13/20 A47L13/24 A47L13/254 A47L13/255 A47L13/42 B25G3/00 B25G3/12

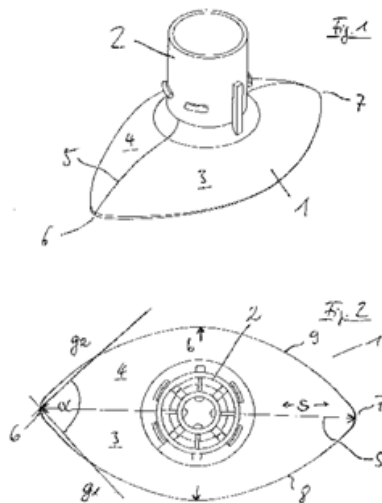
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European: A47L13/254 A47L13/255 A47L13/44

US: 15/147.1 15/228 15/229.1 15/229.2 15/229.6

PatBase - US2001042278_AA

Patent Application Publication Nov. 22, 2001 Sheet 1 of 8 US 2001/0042278 A1



Family:

Publication number	Publication date	Application number	Application date
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AT377377 E	20071115	AT20010102354T	20010202
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US6543082 BB	20030408	US20010861943	20010521

Priority:

DE20001024996 20000522 DE20002023550U 20000522

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Assignee(s): (std): FREUDENBERG CARL ; FREUDENBERG CARL FA ; FREUDENBERG CARL KG

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Inventor(s): CARL FREUDENBERG KG

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; 1 34 10

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE SI TR

3) Family number: 43679267 (US2010139020A)

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Title: MOP

Abstract: A mop includes a handle comprising a plastic end joint comprising a downward protrusion and two shoulders; a rotatable cover comprising an annular trough, a central hole, and bottom latches; a hinge comprising a disc, a yoke, and a circular plate having slits wherein the yoke loosely passes the hole to pivotably secure to the joint with the latches contacting the disc and inserting through the slits to secure the circular plate, the disc, and the cover together, and the joint being disposed in the channel; and a strand mounting assembly comprising arcuate sections comprising two cross-shaped apertures having four sharp protuberance, and sets of strands. Each set of strands has one end fastened in the arcuate section after inserting through the aperture to be retained by the sharp protuberances.

Classifications:

International (IPC 8-9): A47L A47L13/00 A47L13/10 A47L13/16 A47L13/20 A47L13/24 A47L13/254 A47L13/255 A47L13/256

B25G3/38 (Advanced/Invention);

A47L13/20 (Core/Invention);

A47L13/00 (Core/Non-invention);

A47L (Subclass/Invention)

International (IPC 1-7): A47L13/20

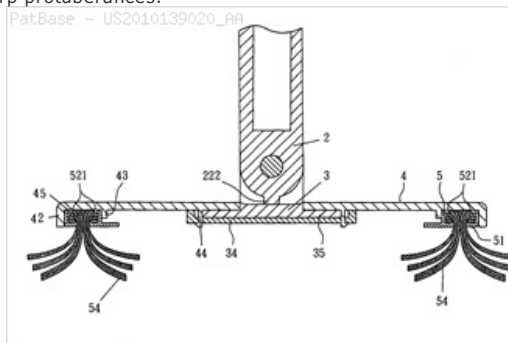
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European: A47L13/255

US: 15/144.1 15/144.2 15/147.1 15/147.100P 15/147.2 15/229.1 15/229.6

JP F-Term: 3B074 3B074/AB03 3B074/AB04 3B074/EE01 3B074/EE02

JP F-Index: A47L13/255



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PH2010000171 U	20100726	PH20100000171U	20100426

RU100891 U1	20110110	RU20100116703U	20100427
TWM366368 Y	20091011	TW20080221972U	20081208
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Priority:

TW20080221972U 20081208 US20090431765 20090429 KR20090015404U 20091127

Probable Assignee: CHIANG HSIAO HUNG

Assignee(s): (std): CHIANG HSIAO HUNG ; HSIAO HUNG CHIANG ; JIANG XIAO HONG

Inventor(s): (std): CHIANG HSIAO HUNG ; HSIAO HUNG CHIANG ; JIANG XIAO HONG

Agent(s): APT PATENT AND TRADE MARK ATTORNEYS; CABINET HERRBURGER; PATENTPROSE; SAM CHEN

4) Family number: 34278798 (WO07096036A1)

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Title: MOP HEAD WHICH CAN BE FASTENED TO A CLEANING MOP WITH DIFFERENT TYPES OF HANDLE

Abstract: Mop head (1) for a cleaning mop (2), comprising a base (3) which has a substantially lemon-shaped basic form, wherein a connection element (4) for detachably fastening a handle (5) is arranged on the outer circumference of the base (3), wherein the connection element (4) is substantially tubular and, on its outer circumference, has at least two guide webs (6) which run in the axial direction and at least two latching lugs (7), which run circumferentially, for plug-type fastening of the handle (5), wherein at least one thread (8) for screw-type fastening of the handle (5) is arranged in the connection element (4).

Classifications:

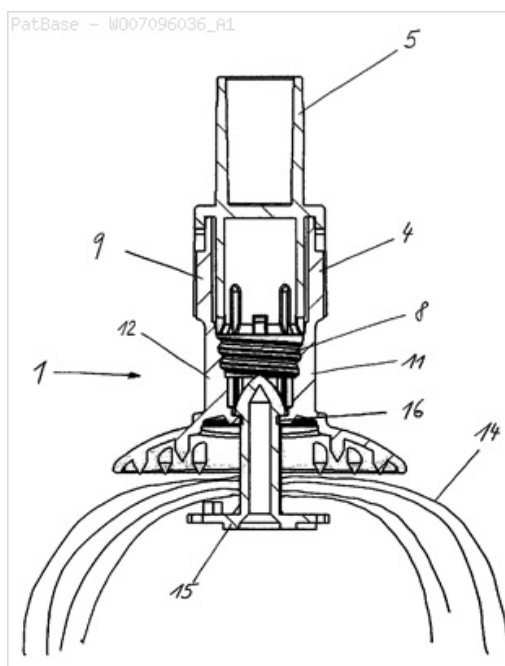
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A47L13/20 B25G3/00 (Core/Invention)

CPC: A47L13/24 A47L13/255 B25G3/18 B25G3/30

European: A47L13/24 A47L13/255 B25G3/18 B25G3/30



Family:

Publication number	Publication date	Application number	Application date
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CN101384207 B	20110817	CN200780005991	20070125
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DE502007011485 D1	20130508	DE200750011485T	20070125
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ES2409208 T3	20130625	ES20070703009T	20070125
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WO07096036 A1	20070830	WO2007EP00607	20070125

Priority:

DE200610007885 20060221 EP20070703009 20070125 WO2007EP00607 20070125

Probable Assignee: FREUDENBERG CARL KG

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Assignee(s): CARL FREUDENBERG KG

Inventor(s): (std): ARNOLD PETER ; ARNOLD PETER L ; PETER ARNOLD

Agent(s): LEHMANN MARIA ISABEL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 51415942 (US2012167320A)

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Title: ROLLER FOR A CLEANING DEVICE

Abstract: A roller and a cleaning device are provided. The roller may be coupled to a cleaning device for wringing liquid from a hydrophilic member of the cleaning device. The roller includes at least one solid wringing member having at least one opening whereby liquid wrung from the hydrophilic member may pass through the roller via the opening. The cleaning device may include a handle, a hydrophilic member coupled to the handle, and a wringer coupled to the handle for wringing liquid from the hydrophilic member. The wringer may include a hand grip and a roller coupled to the hand grip. Upon activation, the roller may move relative to the hydrophilic member and may be adapted to force liquid from the hydrophilic member upon compression of the hydrophilic member. The roller defines at least one opening therethrough and liquid forced from the hydrophilic member passes through the roller via the opening.

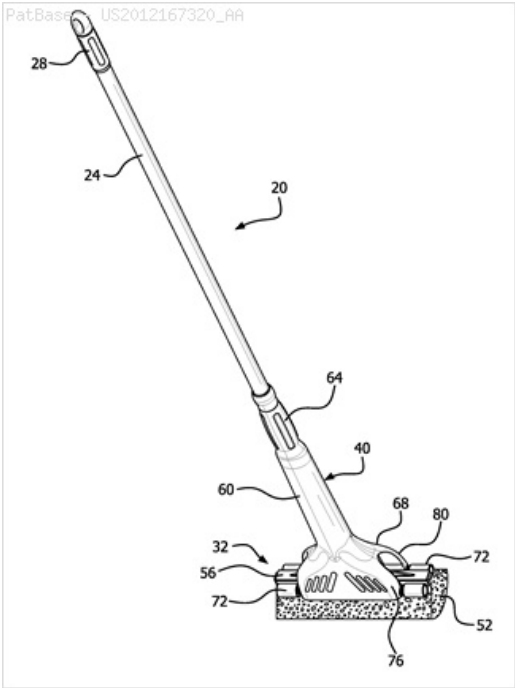
Classifications:

International (IPC 8-9): A47L13/144 A47L13/20
A47L13/60 (Advanced/Invention)

CPC: A47L13/144 A47L13/20

European: A47L13/144 A47L13/20

US: 15/119.1 15/119.100P 15/262 15/262S



Family:

Publication number	Publication date	Application number	Application date
US2012167320 AA	20120705	US20120343212	20120104
WO12094377 A1	20120712	WO2012US20153	20120104

Priority:

US20110429586P 20110104 US20120343212 20120104

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Assignee(s): (std): QUICKIE MFG CORP ; WEAVER JACE A

Inventor(s): (std): WEAVER JACE A

Agent(s): LETCHFORD JOHN F

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 44863053 (EP2353792A2) © PatBase

Title: Handle for cleaning tools and similar tools

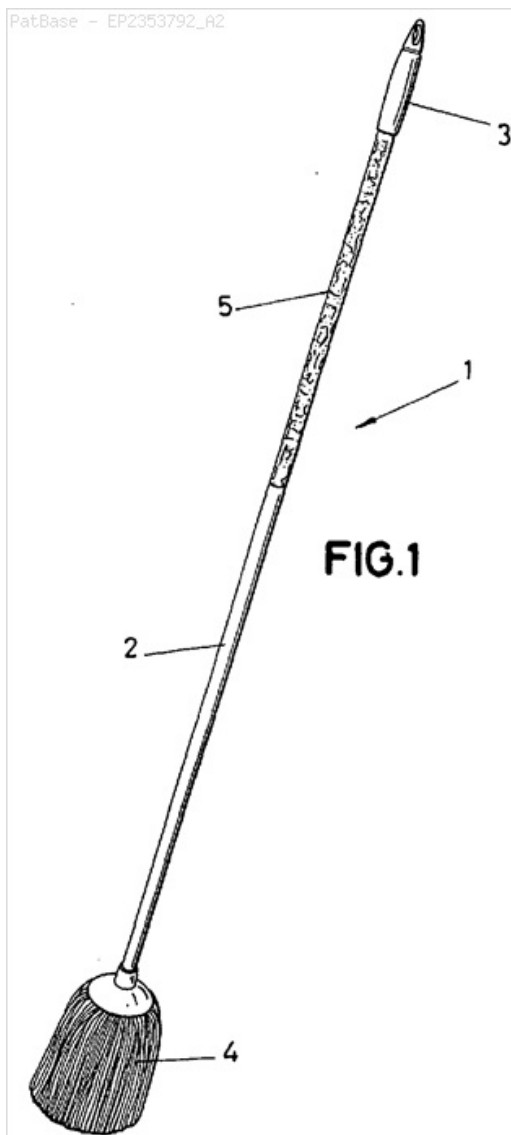
Abstract: Handle for cleaning and similar tools, wherein the cleaning tool (1) has at least one handle (2); said handle (2) may usually have a straight rod or tube shape connected though one end to a cleaning element (4) and through the opposite end to a grip (3); such as mops, brooms, brushes, dustpans and the like characterized in that at least one part of the visible surface of said handle (2) is coated with an ornamental element (7); this element (7) being in turn covered with a transparent protective sheet (6), which together with the mentioned element (7) forms a cover (5).

Classifications:

International (IPC 8-9): A46B5/00 A47L13/20
B25G1/00 (Advanced/Invention)

CPC: B25G1/00

European: B25G1/00

**Family:**

Publication number	Publication date	Application number	Application date
EP2353792 A2	20110810	EP20110380007	20110131
EP2353792 A3	20110907	EP20110380007	20110131
ES1071759 UA	20100405	ES20100030089U	20100204
ES1071759 Y1	20100701	ES20100030089U	20100204

Priority:

ES20100030089U 20100204

Probable Assignee: PALOMATIC S L**Assignee(s):** (std): ALBERT CAMPOS JOSE LUIS ; PALOMATIC S L**Inventor(s):** (std): ALBERT CAMPOS JOSE LUIS**Agent(s):** UNGRIA LOPEZ JAVIER**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR**7) Family number: 30519117 (US2007169292A)**

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Title: HEAD FOR A STRIP MOP

Abstract: A head (1) for a strip mop comprises a hollow dome-shaped body (3) which is attachable at its top to one end of an elongate mop handle (4). Web material is secured within the body (3) so that a portion hangs down from the base of the dome-shaped body to provide the cleaning substrate (2) of the mop. To facilitate access to confined areas of a surface that is being cleaned, such as corners, the base of the dome-shaped body (3) of the mop head has the general form of an equilateral triangle. A spacer (17, Fig. 4) is provided between two adjacent layers of the web material within the dome-shaped body, to enhance the volume of the cleaning substrate (2); and a peripheral skirt (8) of a more resilient material is provided at the base of the wall of the dome-shaped body (3) to reduce the risk of damage to surfaces that might be impacted by the mop head (1) when in use.

Classifications:

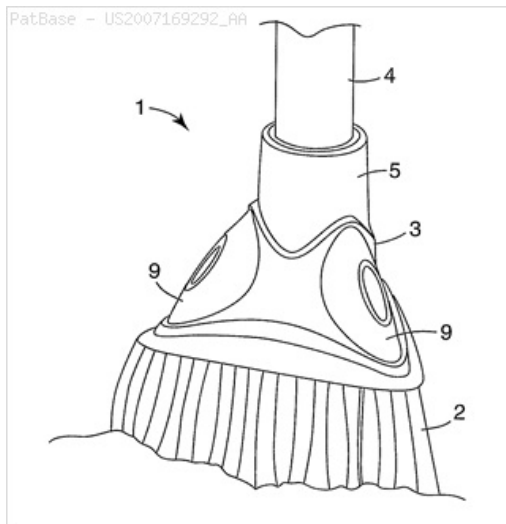
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A47L13/20 (Core/Invention)

International (IPC 1-7): A47L13/20 A47L13/24

CPC: A47L13/24 A47L13/255

European: A47L13/24 A47L13/255

US: 15/147.1 15/147.100 15/151 15/229.1 15/229.2 15/229.200

**Family:**

Publication number	Publication date	Application number	Application date
AT395861 E	20080615	AT20050723625T	20050223
BRPI0508283 A	20070807	BR2005PI08283	20050223
CN100571598 C	20091223	CN200580010962	20050223
CN1942131 A	20070404	CN200580010962	20050223
DE602005006989 D1	20080703	DE200560006989T	20050223
EP1727457 A1	20061206	EP20050723625	20050223
EP1727457 B1	20080521	EP20050723625	20050223
ES2306121 T3	20081101	ES20050723625T	20050223
GB200404524 A0	20040331	GB20040004524	20040301
US2007169292 AA	20070726	US20050598428	20050223
US7631391 BB	20091215	US20050598428	20050223
WO05087076 A1	20050922	WO2005US05818	20050223

Priority:

GB20040004524 20040301 US20050598428 20050223 WO2005US05818 20050223

Probable Assignee: 3M CO

Assignee(s): (std): BEOLCHI MAURIZIO ; CABRERO GOMEZ ESTRELLA ; CORSI CHRISTOPHE C ; ECHEVERRIA ALONSO CARMEN ; ECHEVERRIA CARMEN ; MARTIN RIVERA CARMEN ; FREYERMUTH PATRICE P ; SOYER ERIC A ; PORCINI MAURO ; THORSTEINSSON SIGURDUR ; NEWBOULD PETER ; NEWBOULD PETER J ; MARTIN RIVERA MARIA D C ; 3M CO ; 3M INNOVATIVE PROPERTIES CO

Assignee(s): 3M INNOVATIVE PROPERTIES COMPANY

Inventor(s): (std): BEOLCHI MAURIZIO ; CABRERO GOMEZ ESTRELLA ; CORSI CHRISTOPHE C ; ECHEVERRIA ALONSO CARMEN ; ECHEVERRIA CARMEN ; SOYER ERIC A ; THORSTEINSSON SIGURDUR ; SIGURDUR THORSTEINSSON ; PETER NEWBOULD ; MAURO PORCINI ; MAURIZIO BEOLCHI ; ESTRELLA CABRERO GOMEZ ; CARMEN MARTIN RIVERA ; CARMEN ECHEVERRIA ; MARTIN RIVERA MARIA D C ; NEWBOULD PETER ; NEWBOULD PETER J ; PORCINI MAURO ; FREYERMUTH PATRICE P ; MARTIN RIVERA CARMEN ; CABRERO GOMEZ ESTRELLA MARTIN ; RIVERA CARMEN MARTIN ; GOMEZ ESTRELLA CABRERO ; CORSI CHISTOPHE C ; MARTIN RIVERA MARIA DEL CARMEN ; MARTIN RIVERA CARMEN CTRA VICA

Inventor(s): CABRERO GOMEZ ESTRELLA MARTIN RIVERA CARMEN ; MARTIN RIVERA MARIA DC ; MARTIN RIVERA CARMEN CTRA VICALVARO ; CHISTOPHE C CORSI ; ERIC A SOYER ; PATRICE P FREYERMUTH ; MARTIN RIVERA MARIA ; SOYER ERIC ; CABRERO GOMEZ ESTRELLA MARTIN RIVERA CARMEN ECHEVE ; FREYERMUTH PATRICE ; CORSI CHRISTOPHE

Agent(s): HILL CECILIA ANN; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; TRISHA D

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

8) Family number: 34343670 (US2007067935A)

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Title: MOP ASSEMBLY HAVING THEREIN A ROTATABLE DEVICE TO ALLOW A MOP HEAD TO ROTATE RELATIVE TO STICK AND A POSITIONING DEVICE TO ALLOW THE STICK TO BE POSITIONED WHEN NOT IN USE

Abstract: A mop assembly includes a rotatable device to allow the mop head to rotate relative to the stick so that the user will no longer need to manually rotate the mop head to continue cleaning the floor using the clean side and a positioning device to allow the stick to be temporarily positioned when the mop assembly is not in use and to enable the mop head to pivot relative to the stick to mitigate the trouble of lowering the stick to clean an area under furniture.

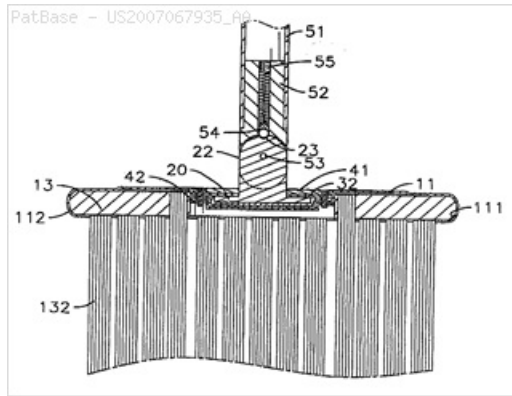
Classifications:

International (IPC 8-9): A47L13/20 (Advanced/Invention); A47L13/20 (Core/Invention)

CPC: A47L13/20 A47L13/58 B25G3/38

European: A47L13/20 A47L13/58 B25G3/38

US: 15/144.1 15/144.2 15/228 15/229.6



Family:

Publication number	Publication date	Application number	Application date
US2007067935 AA	20070329	US20050237793	20050929
US7540057 BB	20090602	US20050237793	20050929

Priority:

US20050237793 20050929

Probable Assignee: DIKAI INT ENTERPRISE LTD

Assignee(s): (std): DIKAI INTERNAT ENTPR LTD ; LIN TIEN SHIH ; TING MING CHE

Assignee(s): DIKAI INTERNATIONAL ENTERPRISES LTD ; DIKAI INT ; DIKAI INT ENTERPRISE LTD ; DIKAI INT ENTERPRISES LTD

Inventor(s): (std): LIN TIEN SHIH ; TING MING CHE

Agent(s): BACON AND THOMAS PLLC

9) Family number: 28515267 (US2003074757A)

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Title: MOP WITH DISPOSABLE MOPPING ELEMENT

Abstract: A light-weight mop having a mop head element with gripping means for engaging a planar fibrous sheet obtained from a magazine which maintains the sheet in moist condition until use. Sheets are singly withdrawn from the magazine after disposal of a previously soiled sheet by releasing the gripping means which engages a laterally projecting portion of the sheet.

Classifications:

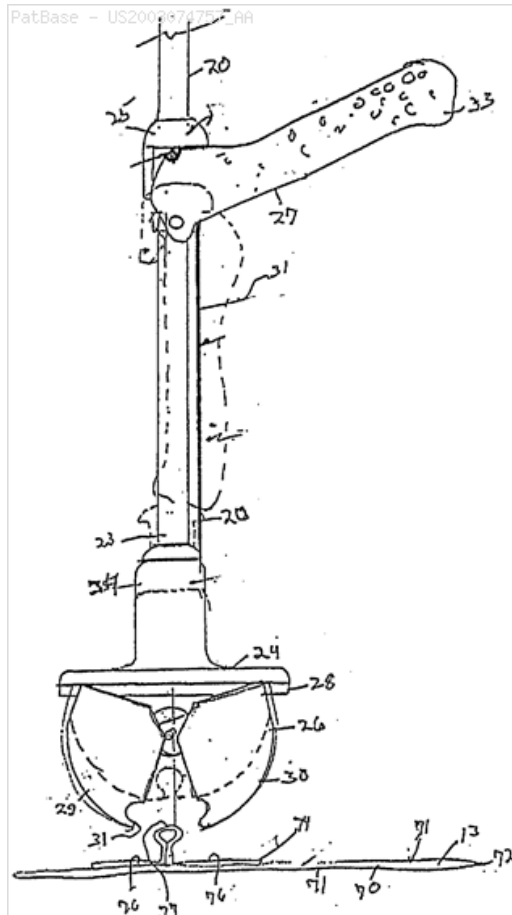
International (IPC 8-9): A47L13/20 A47L13/24 A47L13/51 B25G3/20 B25G3/24 B25G3/38 (Advanced/Invention)

International (IPC 1-7): A47L13/20 A47L13/256 A47L13/46 A47L13/50

CPC: A47L13/20 A47L13/24 A47L13/51 B25G3/20 B25G3/24 B25G3/38

European: A47L13/20 A47L13/24 A47L13/46 A47L13/51 B25G3/20 B25G3/24 B25G3/38

US: 15/145 15/145S 15/147.1 15/147.100S 15/15 15/150 15/150S 15/228 15/228P 15/257.01 15/257.010S



Family:

Publication number	Publication date	Application number	Application date
AU2002217295 AA	20030428	AU20020217295	20011221

EP1441633 A1	20040804	EP20010274557	20011221
US2003074757 AA	20030424	US20020228361	20020827
US2005039286 AA	20050224	US20010492882	20011221
US7313843 BB	20080101	US20010492882	20011221
WO03032800 A1	20030424	WO2001GB05738	20011221

Priority:

US20010330302P 20011019 WO2001GB05738 20011221 US20020228361 20020827
US20040492882 20040930

Probable Assignee: BRINKER JANE

Assignee(s): (std): BRINKER JANE ; COLLINS JOHN DAVID ; MOPSEE ENTPR LTD ; VERONA FRANK

Assignee(s): MOPSEE ENTERPRISES LTD

Inventor(s): (std): BRINKER JANE ; VERONA FRANK

Agent(s): OSTROLENK FABER GERB AND SOFFEN; OSTROLENK FABER GERB AND SOFFEN LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

10) Family number: 33473178 (US2006225234A)

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Title: MOP HEAD RETAINING CLAMP

Abstract: A mop head retaining clamp has a mop handle receiving base member. A lower clamp arm, with retaining teeth is pivotally connected to the base at one end of the arm. The other end of the arm is pivotally connected to one end of a side arm member. The other end of the side arm member is pivotally connected to a handle attached to a lockable insert. The insert is sized to fit snugly into a cavity in the base member and is removeably locked in place by the interaction of the insert's extended front surface with a lipped section extending from the cavity. A mop head attached with this clamp is securely fastened to its mop handle during use, but it can be readily disengaged when the mop head needs to be replaced.

Classifications:

International (IPC 8-9): A47L13/20 A47L13/24 (Advanced/Invention);

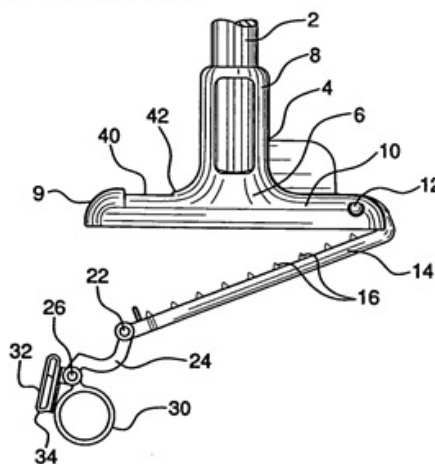
A47L13/20 (Core/Invention)

CPC: A47L13/24

European: A47L13/24

US: 15/147.1 15/150

PatBase - US2006225234_RA



Family:

Publication number	Publication date	Application number	Application date
US2006225234 AA	20061012	US20050101070	20050407
US7246399 BB	20070724	US20050101070	20050407

Priority:

US20050101070 20050407

Probable Assignee: QUICKIE MFG CORP

Assignee(s): (std): QUICKIE MFG CORP

Assignee(s): UNION BANK NA ; UNION BANK NA AGENT FOR LENDERS AS ; QMC BUYER CORP ; QUICKIE MFG

Inventor(s): (std): PETNER ROBERT E

Inventor(s): PETNER ROBERT

Agent(s): HOLLSTEIN KEATING CATTELL JOHNSON AND GOLDSTEIN PC; STUART M

11) Family number: 12701408 (US6253408B)

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Title: Mop

Abstract: A mop to be fastened at the end of a mop handle, including a holding device to which a number of relatively mobile, absorbent strips made of a textile material are fixed essentially transversely to the axis of the handle. At least one spring body is provided, which causes the strips to spread apart, at least in the region of the holding device.

Classifications:

International (IPC 8-9): A47L13/20 A47L13/24 (Advanced/Invention);

A47L13/20 (Core/Invention)

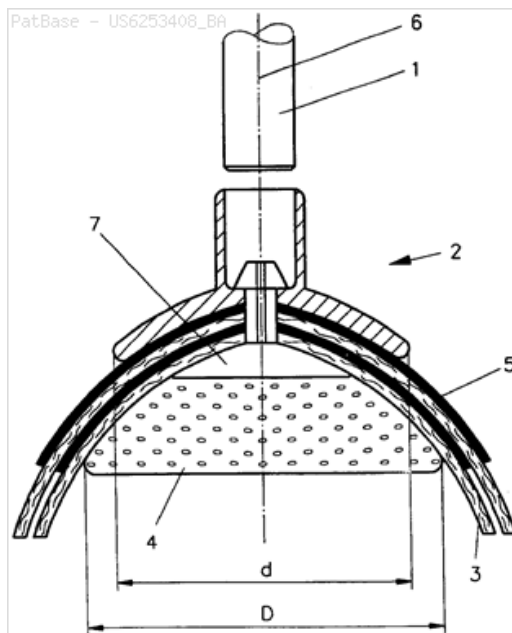
International (IPC 1-7): A47L13/20 A47L13/24 C08J9/16 C08L1/24

C08L75/04 D04H1/54

CPC: A47L13/20 A47L13/24

European: A47L13/20 A47L13/24

US: 15/118 15/229.2



Family:

Publication number	Publication date	Application number	Application date
AR018687 AA	20011128	AR1999P103622	19990722
AT272354 E	20040815	AT19990103775T	19990226
AU199941098 A1	20000217	AU19990041098	19990723
AU199941098 A5	20000217	AU19990041098	19990723
AU209941098 A1	20000217	AU19990041098	19990723
AU732790 B2	20010503	AU19990041098	19990723
CA2276234 AA	20000124	CA19992276234	19990623
CA2276234 C	20041109	CA19992276234	19990623
CN1158045 C	20040721	CN19991005116	19990416
CN1242975 A	20000202	CN19991005116	19990416
DE19833553 C1	19991230	DE19981033553	19980724
DE59910112 D1	20040909	DE19995010112	19990226
EP0974301 A1	20000126	EP19990103775	19990226
EP0974301 B1	20040804	EP19990103775	19990226
ES2222629 T3	20050201	ES19990103775T	19990226
PT974301 T	20041130	PT19990103775T	19990226
TR9900866 A1	20000221	TR19990000866	19990420
US6253408 BA	20010703	US19990352728	19990713

Priority:

DE19981033553 19980724 DE19995010112 19990226

Probable Assignee: CARL FREUDENBERG FA

Assignee(s): (std): CARL FRAUDENBERG FA ; CARL FREUDENBERG ; CARL FREUDENBERG AG ; CARL FREUDENBERG CO ; FREUDENBERG CARL FA ; FREUDENBERG CARL ; FREUDENBERG CARL KG

Assignee(s): FIRMA CARL FRAUDENBERG ; FIRMA CARL FREUDENBERG ; FA CARL FREUDENBERG ; CARL FREUDENBERG KG ; CARL FREUDENBERG FA ; CARL FREUDENBERG HOEHNERWEG FA

Inventor(s): (std): MEIER DR RER NAT ; MEIER KLAUS PETER ; MICHAELA GERSTENLAUER ; NAT KLAUS PETER MEIER DR RER ; RICHARD SCHILLING ; SCHILLING DR ; SCHILLING RICHARD ; UWE FELD ; WENDELKEN DR ; WENDELKEN HANS J RGEN ; WENDELKEN HANS JUERGEN ; WENDELKEN HANS JURGEN DR ; WENDELKEN HANS JURGEN ; KLAUS PETER MEIER ; KLAUS HUBER ; HUBEIT KLAUS ; HANS JUERGEN WENDELKEN ; GERSTENRAER MISHAERA ; FERDER UWEI ; WENDELKEN HANS JUERGEN DR ; WENDELKEN HANS J UUML RGEN ; FELD DR ; FELD UWE ; GERSTENLAUER MICHAELA ; HUBER KLAUS ; SCHILLING RICHARD DR ; MEIER KLAUS PETER DR RER NAT ; FELD UWE DR

Inventor(s): KLAUS HUBEIT ; MISHAERA GERSTENRAER ; KLAUS PETER MEIER DR RER NAT ; HANS J RGEN WENDELKEN ; UWEI FERDER ; WENDELKEN HANS Jue RGEN

Agent(s): HALFORDS IP; DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: AT BE DE ES FR GB GR IT NL PT SE

12) Family number: 23177319 (CN2481275Y)

© PatBase

Title: Inserted mop

Abstract: The utility model discloses an inserted mop, comprising a mopstick and a mophead, wherein, the lower end of the mopstick is fixed with an upper joint comprising an outer pipe and an inner pipe, the outer pipe is evenly distributed with a plurality of vertical grooves, the circle of the inner wall of the outer pipe is provided with a circumferential groove, the mophead is inserted into a lower joint by a rivet, cloth strips are clamped in the mophead, the lower joint with an upward opening can be inserted into a middle pipe between the outer pipe and the inner pipe, the outer wall of the middle pipe is provided with a plurality of vertical tendons inserted into the vertical grooves, and the circle of the outer wall of the middle pipe is provided with a circle of spiccatto circumferential protruding tendons embedded into the circumferential groove. The utility model classifies the mop into two parts of mopstick and mophea which are connected with each other in an inserted way, thereby capable of conveniently and rapidly changing a mophead.

Classifications:

International (IPC 8-9): A47L13/24 (Advanced/Invention); A47L13/20 (Core/Invention)

Family:

Publication number	Publication date	Application number	Application date
CN2481275 Y	20020313	CN20012018118U	20010329

Priority:

CN20012018118U 20010329

Probable Assignee: YUAN YONG

Assignee(s): (std): YUAN YONG

Inventor(s): (std): YONG YUAN ; YUAN YONG

13) Family number: 8466042 (US5199130A)

© PatBase

Title: Hydrophobic mop which retains its shape

Abstract: A mop having a plurality of cleaning elements each made of a hydrophobic net material with a center area having a respective locating aperture in alignment with each other. The center area of each is compressed between a securing member and fastener head. The fastener has a stem which is inserted through the locating apertures and held by the securing member. The cleaning elements tangle and engage with each other because of the compression and because edges of each of the cleaning elements is formed of protruding ends of yarns of the net material which engage within interstices of neighboring ones of the cleaning elements. The protruding ends at the free ends of the cleaning elements as well as both sides of the cleaning elements constitute abrasive surfaces which clean external surfaces of particulate matter when moved back and forth against the external surfaces.

Classifications:

International (IPC 8-9): A47L13/20 (Advanced/Invention);

A47L13/20 (Core/Invention)

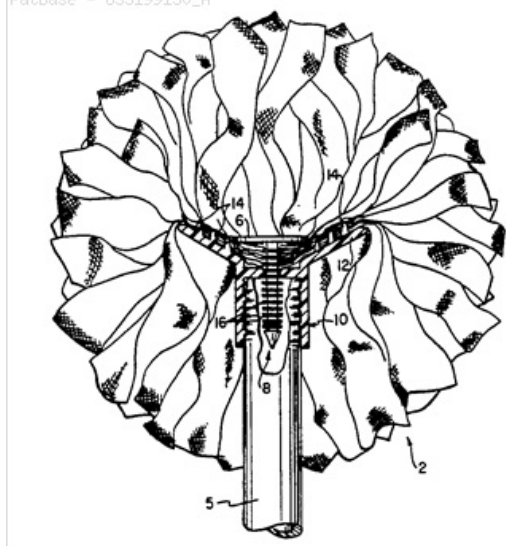
International (IPC 1-7): A47L13/20

CPC: A47L13/20

European: A47L13/20

US: 15/147.1 15/226 15/229.1 15/229.2

PatBase - US5199130_A



Family:

Publication number	Publication date	Application number	Application date
AU199342786 A1	19941024	AU19930042786	19930405
US5199130 A	19930406	US19920824507	19920123
WO9422356 A1	19941013	WO1993US03191	19930405

Priority:

US19880208734 19880617

US19910656018 19910215

US19920824507 19920123

WO1993US03191 19930405

Probable Assignee: JOHANNA D LAZAR

Assignee(s): (std): JOHANNA D LAZAR ; LAZAR JOHANNA D

Inventor(s): (std): LAZAR JOHANNA D

Inventor(s): JOHANNA D LAZAR

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA VN

14) Family number: 17164156 (ES1022228Y)

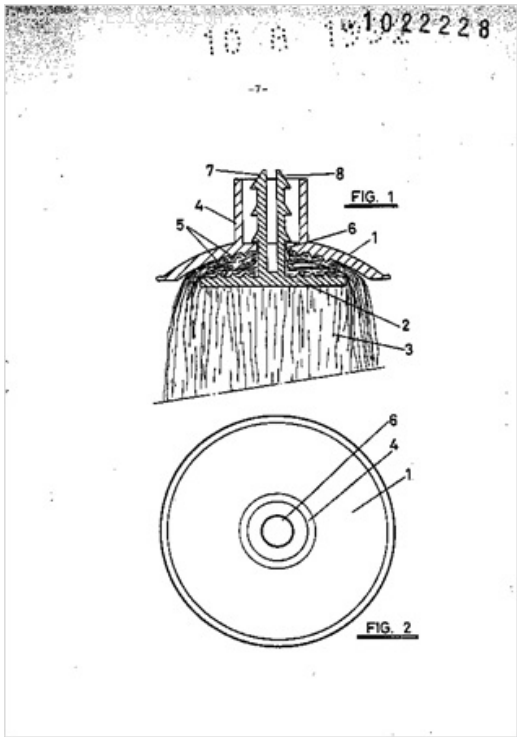
© PatBase

Title: ARMADURA PARA MOPAS FRIEGASUELOS

Abstract: Source: ES1022228U [ES] ARMADURA PARA MOPAS FRIEGASUELOS, QUE COMPRENDE UN CABEZAL Y UNA PLACA RETENEDORA ACOPLABLES ENTRE SI, ENTRE LAS QUE VAN DISPUESTAS LAS TIRAS, CORDONES O MECHAS DE LA MOPA, CUYA PLACA DISPONE DE ESPIGAS DENTADAS INTRODUCIBLES A TRAVES DE ORIFICIOS ENFRENTABLES DEL CABEZAL QUE DISPONEN DE ESTRANGULAMIENTOS QUE PERMITEN EL PASO DE LOS DIENTES DE LAS ESPIGAS EN UN SENTIDO PERO NO EN EL OPUESTO, Y CUYO CABEZAL DISPONE DE UN CASQUILLO EXTERNO EN EL QUE SE FIJA EL EXTREMO DEL MASTIL O PALO DE LA FREGONA, CARACTERIZADA PORQUE LA PLACA COMPRENDE AL MENOS DOS SEMIESPIGAS CENTRALES, CADA UNA DE LAS CUALES INCLUYE UN NUCLEO APROXIMADAMENTE SEMICILINDRICO, QUE DISPONE DE DIENTES SEMICONICOS SOLO EN LA SUPERFICIE CILINDRICA, MIENTRAS QUE LAS SUPERFICIES PLACAS DE AMBOS NUCLEOS SON LISAS, CARENTES DE DIENTES Y DISCURREN PARALELAS, ENFRENTADAS Y PROXIMAS ENTRE SI; Y PORQUE EL CABEZAL DISPONE DE UN SOLO ORIFICIO PARA LAS DOS SEMIESPIGAS, DE DIAMETRO APROXIMADAMENTE IGUAL AL DEL CONTORNO FORMADO POR LOS NUCLEOS DE DICHAS SEMIESPIGAS; SIENDO LA SEPARACION ENTRE LOS NUCLEOS APROXIMADAMENTE IGUAL AL AUMENTO DE SECCION DEFINIDO POR CADA PAREJA DE DIENTES SEMICONICOS.

Machine translation: Armor FOR MOPS MOP, COMPRISING A HEAD AND A RETAINING PLATE coupled to each other, between which are arranged the strips, cords or ROVINGS OF THE MOP, which PLATE HAS TOOTHED PINS INSERTABLE THROUGH FACEABLE HOLES OF THE HEADER THAT HAVE BOTTLENECKS THAT ALLOW THE PASSAGE OF THE TEETH OF THE TENONS in one direction but not the opposite, AND WHOSE HEAD HAS AN EXTERNAL SLEEVE ON WHICH IS FIXED THE END OF THE mast or pole of the mop, characterized IN THAT THE PLATE COMPRISES AT LEAST TWO CENTRAL SEMIESPIGAS, EACH OF WHICH INCLUDES AN APPROXIMATELY semi-cylindrical core, which has teeth only on the cylindrical surface, WHILE THE SEMICONICOS SURFACES Plates of both cores are smooth, devoid of teeth and run parallel, opposite and close to each other; AND IN THAT THE HEAD HAS A SINGLE HOLE PARALAS TWO SEMIESPIGAS, OF DIAMETER APPROXIMATELY EQUAL TO THE CONTOUR FORMED BY THE CORES OF SAID SEMIESPIGAS; the spacing between the cores APPROXIMATELY EQUAL TO THE INCREASE OF SEMICONICOS SECTION DEFINED BY EACH PAIR OF TEETH.

Classifications:
International (IPC 8-9): A47L13/24 (Advanced/Invention);
A47L13/20 (Core/Invention)
International (IPC 1-7): A47L13/24



Family:

Publication number	Publication date	Application number	Application date
ES1022228 UA	19930316	ES19920002500U	19920810
ES1022228 Y1	19940216	ES19920002500U	19920810
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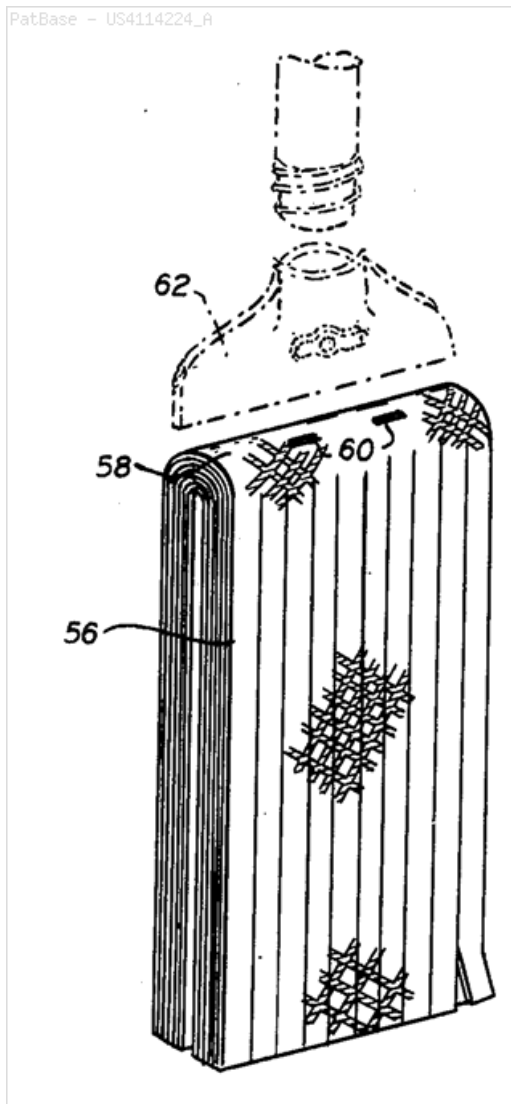
Priority:
ES19920002500U 19920810
Probable Assignee: MOPATEX S A
Assignee(s): (std): MOPATEX S A
Assignee(s): MOPATEX SA
Inventor(s): (std): VALLS FERRERO ; VALLS FERRERO ALBERTO

15) Family number: 19186910 (US4114224A) © PatBase

Title: Mop comprising bonded nonwoven fabric absorptive elements

Abstract: In a mop comprising a plurality of absorptive elements, a handle, and means joining said elements to said handle, the improvement wherein said absorptive elements comprise substantially flat strips of bonded nonwoven fabric, said strips ranging in width from about 5 to 60 mm, in length from about 15 to 60 cm and in thickness from about 0.5 to 3 mm. Binder may be printed onto the elements. The elements are flat and thus there is a greater area of contact with the surface being mopped. The elements may be joined into a round or elongate cross section mop by providing the elements with cuts through which a male member projects, the male member locking with a snap fit into a female member to which a mop handle is attached. Projections may be provided in the male and/or female members to immobilize the absorptive elements.

Classifications:
International (IPC 8-9): A47L13/20 A47L13/24 (Advanced/Invention);
A47L13/20 (Core/Invention)
International (IPC 1-7): A46B15/00 A47L13/20 A47L13/24
A47L13/44 B08B
CPC: A47L13/20 A47L13/24 A47L13/255
European: A47L13/20 A47L13/24 A47L13/255
US: 15/226 15/229.1 15/229.2 15/229A

**Family:**

Publication number	Publication date	Application number	Application date
AU197725203 A1	19781123	AU19770025203	19770517
AU503435 B2	19790906	AU19770025203	19770517
CH617081 A	19800514	CH19770005502	19770503
DE7625260 U1	19761216	DE19760025260U	19760812
ES220294 U	19760916	ES19760220294U	19760413
ES220295 U	19760916	ES19760220295U	19760413
ES220296 U	19760916	ES19760220296U	19760413
FR2361085 A1	19780310	FR19770024964	19770812
GB1587445 A	19810401	GB19770033760	19770811
IT1078199 A	19850508	IT19770049312	19770506
PT66490 A	19770501	PT19770066490	19770428
PT66490 B	19780929	PT19770066490	19770428
US4114224 A	19780919	US19770760209	19770117
YU181477 A	19830121	YU19770001814	19770721

Priority:

ES19760220294U 19760413 ES19760220295U 19760413 ES19760220296U 19760413
 DE19760025260U 19760812 DE19767625260 19760812

Probable Assignee: FA CARL FREUDENBERG 6940 WEINHEIM

Assignee(s): (std): BADEN SVIZZERA BBC AKTIENGESSEL ; CARL FREUDENBERG ; COMERCIAL ROJAS S A ; FREUDENBERG CARL FA ; FREUDENBERG C ; FREUDENBERG C A KOMMANDITGESEL ; FREUDENBERG CARL ; FREUDENBERG C KG ; FREUDENBERG CARL KG ; FREUDENBERG KARL ; ROJAS COM SA

Assignee(s): FREUDENBERG CARL FIRMA ; FREUDENBERG C A KOMMANDITGESELLSCHAFT ; FREUDENBERG C A KG ; FA CARL FREUDENBERG 6940 WEINHEIM ; FIRMA CARL FREUDENBERG ; CARL FREUDENBERG A KOMMANDITGESELLSCHAFT ; CARL FREUDENBERG KG

Inventor(s): (std): EBERHARD DISKO ; E DISKO ; DISKO EBERHARD ; DISKO E

Inventor(s): BISEN E

Agent(s): CA; DAVIES COLLISON CAVE PTY LTD