

Title (en)

A FLOOR MOP CAPABLE OF USING BOTH SIDES

Title (de)

BEIDSEITIG BENUTZBARER FUSSBODENMOPP

Title (fr)

BALAI A LAVER PERMETTANT UNE UTILISATION DES DEUX FACES

Publication

EP 1610662 A4 20090318 (EN)

Application

EP 03759020 A 20031028

Priority

- KR 0302286 W 20031028
- KR 20030010354 U 20030404
- KR 20030010355 U 20030404

Abstract (en)

[origin: WO2004086931A1] The present invention relates to a floor mop capable of using both sides without bending one's back, and a floor mop which is capable of being fixed by a magnetic force, and which has a rotation structure for fixing selectively both sides of a floor cloth attached to the supporting pad. The rotation structure has a permanent magnet to press and fix the floor cloth by magnetic force. Here, the rotation structure has a triple hinge connection structure which comprises a first rotation zone hinge-combined to a supporting pad, a second rotation zone hinge-combined to the first rotation zone, and a roller hinge-combined to the second rotation zone, thereby the floor mop is capable of rotating more smoothly around the supporting pad.

IPC 8 full level

A47L 13/20 (2006.01); **A47L 13/24** (2006.01); **A47L 13/256** (2006.01); **B25G 3/38** (2006.01)

CPC (source: EP US)

A47L 13/24 (2013.01 - EP US); **A47L 13/256** (2013.01 - EP US); **B25G 3/38** (2013.01 - EP US)

Citation (search report)

- [XA] DE 10123522 C1 20020814 - VERMOP SALMON GMBH [DE]
- [A] US 5864914 A 19990202 - SALMON DIRK [DE]
- [A] DE 9415071 U1 19941103 - VILEDA GMBH [DE]
- See references of WO 2004086931A1

Cited by

WO2007115026A2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2004086931 A1 20041014; AU 2003274767 A1 20041025; EP 1610662 A1 20060104; EP 1610662 A4 20090318; JP 2006513794 A 20060427; JP 4266009 B2 20090520; US 2007006413 A1 20070111

DOCDB simple family (application)

KR 0302286 W 20031028; AU 2003274767 A 20031028; EP 03759020 A 20031028; JP 2004570212 A 20031028; US 55278505 A 20050930