

Title (en)  
CLEANING DEVICE

Title (de)  
REINIGUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE NETTOYAGE

Publication  
**EP 3524122 A1 20190814 (EN)**

Application  
**EP 18250023 A 20180928**

Priority  
• CN 2018076678 W 20180213  
• US 201816044892 A 20180725

Abstract (en)  
A cleaning device includes a cleaning head (10), a body (20), and a locking mechanism (30). The body (20) is hinged to the cleaning head (10). The locking mechanism (30) includes a first magnetic member (31) provided on the cleaning head (10) and a second magnetic member (32) provided on the body (20) and attracted to the first magnetic member (31) when the body (20) stands upright. The body (20) is locked to the cleaning head (10) by the magnetic attraction between the first magnetic member (31) and the second magnetic member (32).

IPC 8 full level  
**A47L 11/40** (2006.01)

CPC (source: EP GB)  
**A47L 5/00** (2013.01 - GB); **A47L 5/28** (2013.01 - GB); **A47L 11/00** (2013.01 - GB); **A47L 11/22** (2013.01 - EP); **A47L 11/4075** (2013.01 - EP); **A47L 11/4091** (2013.01 - EP)

Citation (search report)  
• [X] WO 2016141953 A1 20160915 - KAERCHER GMBH & CO KG ALFRED [DE]  
• [X] US 9999333 B2 20180619 - THORNE JASON BOYD [US], et al  
• [X] WO 2016141960 A1 20160915 - KAERCHER GMBH & CO KG ALFRED [DE]  
• [X] US 8752241 B2 20140617 - WOERWAG PETER [CH]  
• [X] CN 201052128 Y 20080430 - CHANGXIE XU [CN]  
• [X] WO 2007092508 A2 20070816 - ONTEL PRODUCTS CORP [US], et al  
• [A] US 7581284 B2 20090901 - COURTNEY STEPHEN BENJAMIN [GB]  
• [A] CH 267910 A 19500430 - ERNST WERNER [CH]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 202018105566 U1 20181009**; EP 3524122 A1 20190814; GB 2570961 A 20190814

DOCDB simple family (application)  
**DE 202018105566 U 20180927**; EP 18250023 A 20180928; GB 201815993 A 20180928