

Title (en)  
CLEANING TOOL

Title (de)  
REINIGUNGSWERKZEUG

Title (fr)  
OUTIL DE NETTOYAGE

Publication  
**EP 2952130 A4 20160323 (EN)**

Application  
**EP 14836993 A 20140404**

Priority  
JP 2014060039 W 20140404

Abstract (en)  
[origin: EP2952130A1] In a cleaner, a first end portion of a core member includes shaft portions that allow the core member to be movable relative to a body member with the first end portion serving as a pivotal point. A second end portion of the core member is configured to be detachably locked by a second end support portion of the body member. The motion of the core member is restricted in a state in which the second end portion is locked by the second end support portion and is allowed in a state in which the locked state is released. The body member includes a top wall portion that is disposed such that the body member faces the core member but is set apart therefrom in a radial direction thereof and a pair of sidewall portions that extend from the top wall portion toward the core member and face each other in the radial direction of the core member. The first end support portion of the body member includes the pair of sidewall portions and a portion of the top wall portion that is interposed between the pair of sidewall portions. The pair of sidewall portions rotatably support the shaft portions in an area surrounded by the top wall portion and the pair of sidewall portions.

IPC 8 full level  
**A47L 25/00** (2006.01)

CPC (source: EP KR)  
**A47L 13/10** (2013.01 - KR); **A47L 25/005** (2013.01 - EP KR); **B08B 7/0028** (2013.01 - KR)

Citation (search report)

- [A] US 4979257 A 19901225 - HENEVELD WILLIAM R [US]
- [A] DE 1628830 A1 19700521 - TACKMER CORP
- [A] JP S5120845 U 19760216
- [A] US 4422201 A 19831227 - MCKAY NICHOLAS D [US]
- See references of WO 2015151296A1

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)  
**EP 2952130 A1 20151209; EP 2952130 A4 20160323**; CN 105283112 A 20160127; CN 105283112 B 20190108; JP 6180444 B2 20170816; JP WO2015151296 A1 20170413; KR 20160140336 A 20161207; WO 2015151296 A1 20151008

DOCDB simple family (application)  
**EP 14836993 A 20140404**; CN 201480002055 A 20140404; JP 2014060039 W 20140404; JP 2014557273 A 20140404; KR 20157028831 A 20140404