

Title (en)

Cleaning device with at least one cleaning head

Title (de)

Reinigungsgerät mit mindestens einem Reinigungskopf

Title (fr)

Appareil de nettoyage doté d'au moins une tête de nettoyage

Publication

**EP 2638837 A3 20140319 (DE)**

Application

**EP 13158487 A 20130310**

Priority

DE 102012203930 A 20120313

Abstract (en)

[origin: EP2638837A2] The device (01) has a bristleless cleaning head (02) comprising a base body (06) and multiple sheet-like or lamella-like cleaning elements (07), which are integrally formed with each other. An additional cleaning element (28) that is different from the other cleaning elements, is arranged at a convex portion of the head. The additional cleaning element is formed from two grooves (23) arranged in a convex end of the base body, where the convex end forms the convex portion of the head. A continuous cleaning surface i.e. working surface, or cleaning lip is formed by all cleaning elements.

IPC 8 full level

**A47K 11/10** (2006.01)

CPC (source: EP)

**A47K 11/10** (2013.01)

Citation (search report)

- [XDA] DE 1707232 U 19550922 - MENZ EDMUND [DE]
- [XA] FR 731297 A 19320831
- [A] FR 997179 A 19520102

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 102012203930 B3 20130502**; DE 202012012429 U1 20130610; EP 2638837 A2 20130918; EP 2638837 A3 20140319

DOCDB simple family (application)

**DE 102012203930 A 20120313**; DE 202012012429 U 20120313; EP 13158487 A 20130310