

Title (en)

A DISHWASHING SYSTEM FOR DISHWASHERS

Title (de)

GESCHIRRSPÜLSYSTEM FÜR GESCHIRRSPÜLER

Title (fr)

SYSTÈME DE LAVAGE DE VAISSELLE POUR LAVE-VAISSELLE

Publication

**EP 3728720 A4 20201230 (EN)**

Application

**EP 18893613 A 20181224**

Priority

- TR 201721371 A 20171223
- TR 2018050876 W 20181224

Abstract (en)

[origin: WO2019132834A2] The present invention relates to a dishwasher which ensures cleaning of stuck, dried remains on dishes (13) directly in dishwasher, without pre-washing, by means of spherical cleaning balls (13) which have at least one center point of cleaning ball (6) and cleaning ball radius (6.1), and an iron sphere (1.1) in its innermost layer for being recollected by the cleaning ball collector electromagnet (7) after being sprayed onto the dishes, flexible sponge (2) in its middle layer for not damaging the dishes during impacts, a water proof elastic coating on its outermost layer in order to prevent water from contacting with the iron sphere (1.1) and flexible sponge (2), a surface having a plurality of pointed elastic thorns (5) on at least one hemisphere of the cleaning ball (1) to mechanically fragment stuck and dried remains, and a surface having a plurality of elliptical elastic palettes (4) on at least one hemisphere of the cleaning ball (1) to wipe stuck and dried remains. The invention is characterized by comprising a spraying arm (11), a spraying arm blade (11.1) and a cleaning ball spraying nozzle (11.2) allowing the cleaning balls (1) to mix and to be sprayed with water, a collector electromagnet (7) and a cleaning ball collection chamber (8) for collecting the cleaning balls (1) back impacting to dishes (13), a cleaning ball recirculation motor (9) and a cleaning ball conveying pipe (10) for returning the collected cleaning balls (1) back to washing cycle again.

IPC 8 full level

**D06F 39/06** (2006.01); **A47L 15/00** (2006.01); **A47L 15/16** (2006.01); **A47L 15/42** (2006.01)

CPC (source: EP)

**A47L 15/0094** (2013.01)

Citation (search report)

- [XY] JP H1128430 A 19990202 - OKAZAKI YOSHIYA, et al
- [Y] WO 2011059208 A2 20110519 - PARK HO YONG [KR]
- [Y] CN 106562750 A 20170419 - NONG LIYAN
- [A] EP 1832218 A1 20070912 - DIHR SPA [IT]
- [A] US 6280301 B1 20010828 - ROGMARK BERTIL [SE]
- [A] KR 100925484 B1 20091106 - SONG YOUNG IL [KR]
- See also references of WO 2019132834A2

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)

**WO 2019132834 A2 20190704; WO 2019132834 A3 20191010**; EP 3728720 A2 20201028; EP 3728720 A4 20201230; TR 201721371 A3 20180424

DOCDB simple family (application)

**TR 2018050876 W 20181224**; EP 18893613 A 20181224; TR 201721371 A 20171223