

Title (en)  
CLEANER

Title (de)  
REINIGER

Title (fr)  
DISPOSITIF DE NETTOYAGE

Publication  
**EP 4122371 A4 20240501 (EN)**

Application  
**EP 20925488 A 20200914**

Priority  

- US 202062990060 P 20200316
- KR 20200082657 A 20200706
- KR 2020012358 W 20200914

Abstract (en)  
[origin: EP4122371A1] A cleaner capable of performing cleaning by being provided with a mop attached to a rotary plate is proposed. The cleaner includes: a body; the rotary plate coupled to a lower side of the mop facing a floor and rotatably coupled to the body; and a prevention part provided on at least one of the body and the rotary plate so that a distance between the body and the rotary plate is minimized, and preventing foreign matters from entering between the body and the rotary plate. With this configuration, it is possible to obtain an effect of preventing the foreign matters from entering a gap between the body and the rotary plate by the prevention part provided in at least one of the body and the rotary plate.

IPC 8 full level  
**A47L 11/40** (2006.01); **A47L 11/30** (2006.01)

CPC (source: EP)  
**A47L 11/305** (2013.01); **A47L 11/4038** (2013.01); **A47L 11/4066** (2013.01)

Citation (search report)  

- [XY] US 2019328194 A1 20191031 - KIM JINHO [KR], et al
- [X] WO 2020013472 A1 20200116 - LG ELECTRONICS INC [KR]
- [E] WO 2021091287 A1 20210514 - LG ELECTRONICS INC [KR]
- [XYI] KR 200475481 Y1 20141203
- See also references of WO 2021187697A1

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

DOCDB simple family (publication)  
**EP 4122371 A1 20230125**; **EP 4122371 A4 20240501**; CN 115279240 A 20221101; CN 115279240 B 20231222; TW 202135719 A 20211001; TW I798611 B 20230411; WO 2021187697 A1 20210923

DOCDB simple family (application)  
**EP 20925488 A 20200914**; CN 202080098482 A 20200914; KR 2020012358 W 20200914; TW 109146054 A 20201224