

Title (en)  
CLEANER

Title (de)  
REINIGER

Title (fr)  
APPAREIL DE NETTOYAGE

Publication  
**EP 4289322 A1 20231213 (EN)**

Application  
**EP 22749875 A 20220107**

Priority  
• KR 20210015960 A 20210204  
• KR 2022000332 W 20220107

Abstract (en)  
The present disclosure relates to a cleaner. Since the cleaner includes: a pitch member configured to rotate the main body about the pitch axis; a yaw member configured to rotate the main body about the yaw axis; and a roll member configured to rotate the main body about the roll axis, and limits a rotation of the roll member when the main body is in a first location, and allows a rotation of the roll member when the main body is in a second location, the cleaner secures excellent operability when the cleaner is in the first location which is higher, and excellent straightness when the cleaner is in the second location which is lower.

IPC 8 full level  
**A47L 9/24** (2006.01); **A47L 5/24** (2006.01)

CPC (source: EP KR US)  
**A47L 5/24** (2013.01 - KR); **A47L 5/26** (2013.01 - EP); **A47L 9/02** (2013.01 - US); **A47L 9/242** (2013.01 - EP KR US);  
**A47L 9/248** (2013.01 - EP KR US)

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4289322 A1 20231213**; KR 20220112425 A 20220811; US 2024090724 A1 20240321; WO 2022169121 A1 20220811

DOCDB simple family (application)  
**EP 22749875 A 20220107**; KR 20210015960 A 20210204; KR 2022000332 W 20220107; US 202218264337 A 20220107