

Title (en)  
FLOOR SURFACE CLEANING APPARATUS

Title (de)  
BODENFLÄCHENREINIGUNGSVORRICHTUNG

Title (fr)  
APPAREIL DE NETTOYAGE DE SURFACE DE SOL

Publication  
**EP 3861910 A1 20210811 (EN)**

Application  
**EP 21151513 A 20210114**

Priority  
JP 2020017978 A 20200205

Abstract (en)  
Provided is a floor surface cleaning apparatus with which a reduction in the size of the apparatus can be realized, the driving efficiency can be increased, and wastewater on a floor surface can be reliably retrieved regardless of the state of the floor surface. A floor surface cleaning apparatus (10) includes a water collecting nozzle (18), rotating brushes (26, 26A, 26B) that can retain water, and a water collecting box (16) that has a pooling portion (31) in which wastewater can be pooled. When the rotating brushes (26) are rotationally driven, wastewater on the floor surface (23) is absorbed and retained by the rotating brushes (26), and the wastewater retained in the rotating brushes (26) can be made into a mist and flung upwards by a centrifugal force generated by rotation of the rotating brushes (26) and passed through an opening (177) and a suction port (168) and pooled in the pooling portion (31) in the water collecting box (16).

IPC 8 full level  
**A47L 9/04** (2006.01); **A47L 11/18** (2006.01); **A47L 11/24** (2006.01); **A47L 11/40** (2006.01)

CPC (source: CN EP US)  
**A47L 9/0477** (2013.01 - EP); **A47L 11/18** (2013.01 - EP); **A47L 11/24** (2013.01 - CN EP); **A47L 11/302** (2013.01 - CN US); **A47L 11/4013** (2013.01 - EP); **A47L 11/4016** (2013.01 - CN US); **A47L 11/4041** (2013.01 - CN US); **A47L 11/4069** (2013.01 - CN); **A47L 11/4088** (2013.01 - CN); **A47L 11/4094** (2013.01 - CN); **A47L 11/4083** (2013.01 - US); **A47L 11/4088** (2013.01 - US)

Citation (applicant)  
JP 2018000304 A 20180111 - AMANO CORP

Citation (search report)  
• [XAY] EP 2387932 A1 20111123 - KONINKL PHILIPS ELECTRONICS NV [NL]  
• [Y] EP 2395895 A1 20111221 - KONINKL PHILIPS ELECTRONICS NV [NL]  
• [A] DE 212015000069 U1 20160929 - ALLCLEAN REINIGUNGS- UND UMWELT-TECHNIK GMBH [DE]

Cited by  
GB2624225A

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 3861910 A1 20210811**; CN 113208503 A 20210806; CN 113208503 B 20220412; JP 2021122503 A 20210830; US 2021235956 A1 20210805

DOCDB simple family (application)  
**EP 21151513 A 20210114**; CN 202110062930 A 20210118; JP 2020017978 A 20200205; US 202117147491 A 20210113