

Title (en)  
Nozzle for a floor cleaning machine

Title (de)  
Düse für ein Bodenreinigungsgerät

Title (fr)  
Buse pour un appareil de nettoyage du sol

Publication  
**EP 2659817 A3 20170816 (DE)**

Application  
**EP 13165872 A 20130430**

Priority  
DE 102012207357 A 20120503

Abstract (en)  
[origin: EP2659817A2] The nozzle (100) has a nozzle casing (110) provided with a floor cleaning roller movable inside and outside of nozzle casing and rotatable with respect to nozzle casing during an operation of floor cleaning device around a rotational axis (270). A cylindrical portion (250) is extended over 25% of width of nozzle casing, parallel to rotational axis, during operation of floor cleaning device. The floor cleaning roller and cylindrical portion are arranged such that the floor cleaning roller is contacted with the cylindrical portion when moving inside and outside of nozzle casing.

IPC 8 full level  
**A47L 9/04** (2006.01)

CPC (source: EP)  
**A47L 9/0416** (2013.01); **A47L 9/0455** (2013.01)

Citation (search report)

- [XA] DE 60011805 T2 20050707 - TECNICA INTERNAT S R L [IT]
- [A] US 2003145424 A1 20030807 - STEPHENS PAUL D [US], et al
- [A] US 2007209135 A1 20070913 - CHEN HUI [US], et al

Cited by  
US9844307B2; WO2022237260A1; EP3616583A1

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 2659817 A2 20131106; EP 2659817 A3 20170816; EP 2659817 B1 20210630**; DE 102012207357 A1 20131107

DOCDB simple family (application)  
**EP 13165872 A 20130430**; DE 102012207357 A 20120503