

Title (en)  
SUCTION NOZZLE FOR A VACUUM CLEANER

Title (de)  
SAUGDÜSE FÜR EINEN STAUBSAUGER

Title (fr)  
BUSE D'ASPIRATION POUR UN ASPIRATEUR

Publication  
**EP 3310233 A1 20180425 (DE)**

Application  
**EP 16727182 A 20160603**

Priority  
• DE 102015109838 A 20150619  
• EP 2016062629 W 20160603

Abstract (en)  
[origin: WO2016202610A1] The invention relates to a suction nozzle (2) for a vacuum cleaner (1) for sucking up items to be vacuumed from a surface (13) to be cleaned by means of a vacuum air stream, wherein the suction nozzle (2) has: a suction mouth (3) which can be arranged adjacently to the surface (13) to be cleaned and which comprises a suction edge (4) that delimits a sub-surface exposed to the vacuum air stream; a vacuum air stream extraction opening (5); and a delimiting means (8, 9) associated with the suction edge (4), which means can be controlled according to a detection result of a sensor. In order to produce a suction nozzle (2) whose delimiting means (8, 9) can be moved variably if other events occur, the sensor is an obstacle sensor (10, 11) for detecting a substantially stationary obstacle (15) located in front of the suction nozzle (2), in particular a wall or piece of furniture, wherein the obstacle sensor (10, 11) is configured to detect obstacles (15) that are disposed outside the portion of the surface (13) over which the suction nozzle (2) projects and, in relation to an arrangement of the suction nozzle (2) during typical cleaning operation, that protrude beyond a suction edge plane that has the suction edge (4). The invention further relates to a vacuum cleaner (1) with such a suction nozzle (2) and a method for sucking up items to be vacuumed by means of a suction nozzle (2).

IPC 8 full level  
**A47L 9/02** (2006.01); **A47L 9/06** (2006.01); **A47L 9/28** (2006.01)

CPC (source: CN EP US)  
**A47L 5/28** (2013.01 - US); **A47L 9/02** (2013.01 - CN EP US); **A47L 9/06** (2013.01 - CN EP US); **A47L 9/0633** (2013.01 - CN EP US); **A47L 9/28** (2013.01 - CN EP US); **A47L 9/2805** (2013.01 - US); **A47L 9/2842** (2013.01 - US)

Citation (search report)  
See references of WO 2016202610A1

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)  
**DE 102015109838 A1 20161222**; CN 107708512 A 20180216; CN 107708512 B 20210406; EP 3310233 A1 20180425; EP 3310233 B1 20191127; ES 2762921 T3 20200526; JP 2018517475 A 20180705; SG 11201708990R A 20171129; TW 201709863 A 20170316; TW I692340 B 20200501; US 10555654 B2 20200211; US 2018146832 A1 20180531; WO 2016202610 A1 20161222

DOCDB simple family (application)  
**DE 102015109838 A 20150619**; CN 201680033335 A 20160603; EP 16727182 A 20160603; EP 2016062629 W 20160603; ES 16727182 T 20160603; JP 2017560276 A 20160603; SG 11201708990R A 20160603; TW 105118369 A 20160613; US 201615575012 A 20160603