

Title (en)
AIR OUTLET WITH ADJUSTABLE ELEMENT

Title (de)
LUFTAUSLASS MIT EINSTELLBAREN ELEMENTS

Title (fr)
SORTIE D'AIR AYANT UN ÉLÉMENT RÉGLABLE

Publication
EP 3228948 A1 20171011 (EN)

Application
EP 17162093 A 20170321

Priority
SK 500402016U A 20160321

Abstract (en)
The outlet (1) has a body (4) with a plate (2) with openings whose covering or uncovering sets the flow rate and/or the flow direction of the air. The moving covering screen (3) connected to the controller available on the outer side of the body (4) serves this purpose. The plate (2) is from ferromagnetic material and the covering screen (3) is from a permanent magnetic foil which is at least partially flexible, semisolid and adherent to the plate (2). The adherence of the magnetic foil produces tight connection of the covering screen (3) with the plate (2) without gap through which the air could flow and cause noise or vibrations. The outlet (1) is characterized by a very simple and flat construction with small number of moving components; it uses reliable and stable pressure and it is simply mounted and demounted during production, assembly and subsequent maintenance.

IPC 8 full level
F24F 13/12 (2006.01); **F24F 13/06** (2006.01); **F24F 13/24** (2006.01)

CPC (source: EP)
F24F 13/06 (2013.01); **F24F 13/12** (2013.01); **F24F 13/24** (2013.01)

Citation (applicant)
• CN 201327163 Y 20091014 - WISDRI ENG & RES INC CO LTD [CN]
• CN 202835614 U 20130327 - HANGZHOU COOLINGSTRONG AIR CONDITIONING CO LTD
• DE 3644567 A1 19880707 - LTG LUFTECHNISCHE GMBH [DE]
• JP 2014122738 A 20140703 - DAIKIN IND LTD
• KR 20130112235 A 20131014 - SAMSUNG HEAVY IND [KR]
• US 4102357 A 19780725 - CHARLTON MARK
• KR 20100008702 A 20100126 - LEE DEOG KYOO [KR]
• KR 20110132807 A 20111209 - LEE DEOG KYOO [KR]
• SE 510594 C2 19990607 - RC LINJA KY [FI]
• GB 2415248 A 20051221 - NIJBURG INVEST B V [NL]

Citation (search report)
• [AD] SE 510594 C2 19990607 - RC LINJA KY [FI]
• [A] DE 202005009299 U1 20051013 - NIJBURG INVEST B V [NL]
• [A] US 5479984 A 19960102 - EASTERBROOK DAVID [CA], et al

Cited by
CN109184456A; US2021001693A1; US11958339B2; US11415329B2; US11680716B2; WO2019175894A1

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 3228948 A1 20171011

DOCDB simple family (application)
EP 17162093 A 20170321