

Title (en)  
DISPLACEMENT AIR OUTLET

Title (de)  
VERDRÄNGUNGSLUFTAUSSLASS

Title (fr)  
OUVERTURE DE REFOULEMENT

Publication  
**EP 3596403 C0 20240529 (DE)**

Application  
**EP 18715493 A 20180313**

Priority  
• DE 102017105238 A 20170313  
• EP 2018056197 W 20180313

Abstract (en)  
[origin: WO2018167037A1] The invention relates to a displaced air outlet (1) comprising: an elongate tubular body (2) that has a longitudinal axis (13) and a casing (5) with holes, wherein an interior (4) of the tubular body (2) enclosed by the casing (5) forms a first air distribution space (6); an air inlet cross section (8) of the tubular body (2) leading into the interior (4) and arranged at a first end (7) of the tubular body (2); an air outlet cross section formed by the holes in the casing (5); a flow transfer cross section (23) leading from the interior (4) of the tubular body (2), forming a fluidic connection to a second air distribution space (11), and arranged at a second end (9) of the tubular body (2) disposed opposite the first end (7); a nozzle body (3) connected to the second end (9) of the tubular body (2), the interior of said nozzle body forming the second air distribution space (11) and being provided with at least one air outlet cross section (15) in the form of a nozzle (14); and a closure element (21), which is arranged in such a way that it closes the flow transfer cross section (23) in a closed position and releases the flow transfer cross section (23) in an open position. In order to achieve a high depth of infiltration of the jets of supply air exiting from the nozzles (14) and a good induction of the supply air exiting from the holes in the casing (5) by the nozzle jets, according to the invention the ratio of the area of the flow transfer cross section (23) to the area of the cross section of the first air distribution space (6) is at least 0.7, preferably at least 0.75, more preferably at least 0.8.

IPC 8 full level  
**F24F 13/14** (2006.01); **F24F 13/06** (2006.01)

CPC (source: EP)  
**F24F 13/06** (2013.01); **F24F 13/14** (2013.01)

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

Participating member state (EPC – UP)  
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)  
**DE 102017105238 A1 20180913**; CN 110621941 A 20191227; CN 110621941 B 20210608; EP 3596403 A1 20200122;  
EP 3596403 B1 20240529; EP 3596403 C0 20240529; ES 2981988 T3 20241014; JP 2020510186 A 20200402; JP 6961731 B2 20211105;  
WO 2018167037 A1 20180920

DOCDB simple family (application)  
**DE 102017105238 A 20170313**; CN 201880029828 A 20180313; EP 18715493 A 20180313; EP 2018056197 W 20180313;  
ES 18715493 T 20180313; JP 2019571775 A 20180313