

Title (en)
LABORATORY FUME HOOD HAVING GUIDED WALL AND/OR BOTTOM JETS

Title (de)
LABORABZUG MIT GEFÜHRTEN WAND- UND/ODER BODENSTRAHLEN

Title (fr)
SORBONNE DE LABORATOIRE À JETS DE GUIDAGE DE PAROI ET/OU DE FOND

Publication
EP 3562601 B1 20220720 (DE)

Application
EP 17823176 A 20171228

Priority
• DE 102016125891 A 20161229
• EP 2017084706 W 20171228

Abstract (en)
[origin: WO2018122304A1] The invention relates to a fume hood (1) for a laboratory space, comprising a first hollow profiled element (10, 10'), which is arranged on a front-side end face of each side wall (36) and which has a first pressure chamber (10b, 10b') having a plurality of first openings (10d, 10d'), from which air jets in the form of wall jets (100) consisting of compressed air can be output along the associated side wall (36) into the working space. At least one of the first openings (10d, 10d') is connected to the first pressure chamber (10b, 10b') by means of an elongate channel (10c, 10c'), wherein the channel has a length that is at least 3 times the hydraulic diameter of the first opening in order to avoid flow separation of the wall jet (100) from the side wall (36) in a region from the front side of the working space to at least 25% of the depth of the working space. The invention further relates to a fume hood, wherein such a hollow profiled element (20, 20') is arranged on a front-side end face of the bottom plate (34).

IPC 8 full level
B08B 15/02 (2006.01); **B01L 1/02** (2006.01); **F24F 3/163** (2021.01)

CPC (source: EP KR US)
B01L 1/02 (2013.01 - EP KR US); **B01L 1/04** (2013.01 - KR); **B08B 15/023** (2013.01 - EP KR US); **F24F 3/163** (2021.01 - EP KR); **B01L 1/04** (2013.01 - US); **B08B 2215/003** (2013.01 - US); **F24F 3/163** (2021.01 - US); **F24F 9/00** (2013.01 - US)

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

DOCDB simple family (publication)
WO 2018122304 A1 20180705; AU 2017385637 A1 20190718; CA 3048547 A1 20180705; CN 110167687 A 20190823; DE 102016125891 A1 20180705; DK 3562601 T3 20221010; EP 3562601 A1 20191106; EP 3562601 B1 20220720; ES 2927784 T3 20221110; JP 2018108569 A 20180712; JP 6669685 B2 20200318; KR 20190103257 A 20190904; PL 3562601 T3 20221227; PT 3562601 T 20221003; TW 201840374 A 20181116; TW I671136 B 20190911; US 2019351466 A1 20191121

DOCDB simple family (application)
EP 2017084706 W 20171228; AU 2017385637 A 20171228; CA 3048547 A 20171228; CN 201780081121 A 20171228; DE 102016125891 A 20161229; DK 17823176 T 20171228; EP 17823176 A 20171228; ES 17823176 T 20171228; JP 2017032224 A 20170223; KR 20197022252 A 20171228; PL 17823176 T 20171228; PT 17823176 T 20171228; TW 106145972 A 20171227; US 201716474247 A 20171228