

Title (en)
SYSTEM ALLOWING AUTOMATIC EXTRACTION OF COLD GASES IN A FREEZER CABINET OPERATING WITH A CRYOGENIC FLUID

Title (de)
SYSTEM ZUR AUTOMATISCHEN EXTRAKTION VON KALTGASEN IN EINEM MIT EINEM KRYOGENEN FLUID ARBEITENDEN
GEFRIERSCHRANK

Title (fr)
SYSTÈME PERMETTANT L'EXTRACTION AUTOMATIQUE DES GAZ FROIDS DANS UNE ARMOIRE DE SURGÉLATION FONCTIONNANT
AVEC UN FLUIDE CRYOGENIQUE

Publication
EP 3403037 A1 20181121 (FR)

Application
EP 17702424 A 20170110

Priority
• FR 1650248 A 20160113
• FR 2017050050 W 20170110

Abstract (en)
[origin: WO2017121951A1] The invention relates to a cabinet used for freezing or storing food, medical or biological products, using a cryogenic fluid as cooling fluid, said cabinet being of the type that is: provided with one or more convection fans located in the enclosure of the cabinet and capable of moving the air inside the cabinet and thus of contributing to the thermal exchange that occurs therein; and provided with a system for extracting the gases formed in the enclosure of the cabinet due to the vaporisation of said cryogenic fluid, said extraction system including an extraction tube (1) connecting to one wall of the cabinet and linking the enclosure to the outside; characterised in that it includes a flap (2), located on said wall, at the point where the extraction tube enters the cabinet, and extending into the cabinet, the shape, position and direction of said flap making it possible to divert all or part of the turbulence (3) created by the or said convection fans towards the extraction tube.

IPC 8 full level
F25D 17/04 (2006.01); **F25D 3/10** (2006.01); **F25D 3/12** (2006.01); **F25D 17/00** (2006.01)

CPC (source: EP US)
F25D 3/102 (2013.01 - EP US); **F25D 17/005** (2013.01 - EP US); **F25D 17/045** (2013.01 - EP US); **F25D 3/122** (2013.01 - EP 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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
FR 3046668 A1 20170714; FR 3046668 B1 20180216; EP 3403037 A1 20181121; EP 3403037 B1 20231018; ES 2965038 T3 20240410; PT 3403037 T 20231207; US 2019017738 A1 20190117; WO 2017121951 A1 20170720

DOCDB simple family (application)
FR 1650248 A 20160113; EP 17702424 A 20170110; ES 17702424 T 20170110; FR 2017050050 W 20170110; PT 17702424 T 20170110; US 201716069572 A 20170110