

Title (en)
LAMINAR FLOW CLEAN ROOM

Publication
EP 0202110 A3 19870513 (EN)

Application
EP 86303632 A 19860513

Priority
• US 73397185 A 19850514
• US 73397285 A 19850514

Abstract (en)
[origin: EP0202110A2] A clean room having provision for supplying filtered air vertically therethrough under substantially laminar flow conditions includes a filter bank (16) comprising a supporting latticework (30) composed of a plurality of interconnected members which define rectangular open areas, and a plurality of high efficiency air filters (74) positioned on the supporting latticework. Each of the members (34,36) of the latticework has a generally V-shaped outline in cross section with the angular extent of the V-shaped outline being adapted to provide a substantially laminar flow therealong, and so as eliminate any substantial turbulence below the members (34,36) of the latticework. Such turbulence has been found to entrain dust or dirt particles and move the same laterally through the room, and the elimination of such turbulence effectively eliminates lateral migration of dust or dirt particles.

IPC 1-7
F24F 3/16

IPC 8 full level
E04B 9/02 (2006.01); **E04B 9/14** (2006.01); **F24F 3/16** (2006.01); **F24F 13/28** (2006.01)

CPC (source: EP)
E04B 9/02 (2013.01); **E04B 9/14** (2013.01); **F24F 3/167** (2021.01); **F24F 13/28** (2013.01)

Citation (search report)
• [Y] EP 0116772 A1 19840829 - FLANDERS FILTERS [US]
• [A] US 2252724 A 19410819 - MYERS FRANK L
• [A] US 4511380 A 19850416 - FETTER STEPHEN M [US]
• [A] GB 2147409 A 19850509 - HITACHI LTD, et al
• [A] US 3366029 A 19680130 - WILLEM REYNDEERS
• [A] EP 0067577 A1 19821222 - ROBERTS GRAHAM STEED [GB], et al
• [Y] IBM TECHNICAL DISCLOSURE BULLETIN, vol. 13, no. 2, July 1970, page 504, New York, US; S. DeGENNARO: "Horizontal flow work consoles for vertical flow cleanroom"

Cited by
EP0301129A3; EP0262515A3; EP0798027A1; DE4122582A1; US5462484A; DE3812094A1; WO2017017480A1; WO2022008500A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0202110 A2 19861120; EP 0202110 A3 19870513; AU 5739186 A 19861120; AU 584421 B2 19890525

DOCDB simple family (application)
EP 86303632 A 19860513; AU 5739186 A 19860513