

Title (en)
PROCESS AND INSTALLATION FOR AIR CONDITIONING OF ROOMS.

Title (de)
VERFAHREN UND EINRICHTUNG ZUR RAUM-KLIMATISIERUNG.

Title (fr)
PROCEDE ET DISPOSITIF DE CLIMATISATION.

Publication
EP 0298996 B1 19940706

Application
EP 87906063 A 19870930

Priority
• CA 551165 A 19871105
• CH 393386 A 19860930
• CH 8700129 W 19870930

Abstract (en)
[origin: WO8802464A1] The air conditioning system for rooms is based on regulating the fresh air volume fed to the room and extracting used inside air from the upper air layers of the room. In this process at least approximately fresh air isothermal to that of the room is introduced into the room in a laminar manner from the ceiling region (8). The rate of flow of the fresh air introduced supports the formation of partial flows having dynamic characteristics specific to the room. Preferably the fresh air in the ceiling region is introduced in the vicinity of internal walls of the room facing the facade walls (7). A volume flow regulator (3) is controlled by the temperature measured at the laminar diffuser (6). Preferably a heat exchanger (5) is connected to the fresh air duct (1) in the ceiling region, downstream of which is connected a diffuser (6). The fresh air, which is heated virtually to room temperature in the heat exchanger (5) flows into the room from top to bottom with an essentially laminar flow. The comfort of the air conditioning plant is very distinctly improved by adapting the temperature of the room air by means of the fresh air in the heat exchanger (5) and the introduction of isothermal fresh air into the room at a low speed.

IPC 1-7
F24F 7/04; **F24F 11/053**

IPC 8 full level
F24F 3/00 (2006.01); **F24F 7/04** (2006.01); **F24F 11/76** (2018.01)

CPC (source: EP)
F24F 7/04 (2013.01); **F24F 11/76** (2017.12)

Cited by
EP3128244A1

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

DOCDB simple family (publication)
WO 8802464 A1 19880407; CA 1324021 C 19931109; CH 672833 A5 19891229; DE 3750179 D1 19940811; EP 0298996 A1 19890118; EP 0298996 B1 19940706; JP 2509652 B2 19960626; JP H01501335 A 19890511

DOCDB simple family (application)
CH 8700129 W 19870930; CA 551165 A 19871105; CH 393386 A 19860930; DE 3750179 T 19870930; EP 87906063 A 19870930; JP 50558787 A 19870930