

Title (en)
A room air cooling arrangement

Title (de)
Luftkühlungsanordnung eines Raumes

Title (fr)
Dispositif pour le refroidissement de l'air d'un local

Publication
EP 0967443 A2 19991229 (EN)

Application
EP 99850110 A 19990622

Priority
SE 9802215 A 19980623

Abstract (en)
A ceiling mounted room air cooling device comprises a longitudinal primary air channel, a room air cooling coil, a mixing chamber for mixing cooled room air and primary air, means for supplying primary air to the mixing chamber through the medium of an induction effect which serves to suck room air into the device and to pass said air through the cooling coil and into the mixing chamber, and one or more outlet channels through which a mixture of cooled room air and the supplied primary air exit from said device. The device is characterised in that the primary air channel is divided into two spaces by a longitudinal air-permeable partition wall. The first space receives primary air from an external source and is delimited from the second space with respect to flow. The second space forms that part of the primary air channel in which the primary air supply means is arranged in a partition wall or partition walls delimiting the mixing chamber. The air-permeable partition wall preferably comprises perforated sheet metal. The partition wall or walls between the second space and the mixing chamber will conveniently extend generally transversely to the flow direction in the adjacent outlet channel. <IMAGE>

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F24F 1/01

IPC 8 full level
F24F 1/01 (2011.01)

CPC (source: EP)
F24F 1/01 (2013.01); **F24F 2221/14** (2013.01)

Citation (applicant)
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