

Title (en)
OPEN CEILING CONTAINING PHASE CHANGE MATERIAL

Title (de)
OFFENE DECKE MIT PHASENUMWANDLUNGSMATERIAL

Title (fr)
FAUX PLAFOND A CLAIRE-VOIE CONTENANT DES MATERIAUX A CHANGEMENT DE PHASE

Publication
EP 1937909 A1 20080702 (EN)

Application
EP 06792303 A 20060928

Priority

- EP 2006009419 W 20060928
- EP 05077247 A 20050928
- EP 05077387 A 20051017
- EP 06018374 A 20060901
- EP 06792303 A 20060928

Abstract (en)
[origin: WO2007039221A1] An open ceiling system (2) with integrated PCMs for conditioning the climate in an underlying space in a building with the PCMs and, where practical, using ambient air for melting and regenerating the PCMs, the system including: a horizontally-extending carrying structure (13, 113, 313, 313); a lower layer (9, 109, 309A, 509A) of horizontally-extending parallel elongated lower ceiling panels (15, 115A-115K, 315K, 515K) attached to the carrying structure with open gaps (14, 114, 314A, 514A) extending vertically and along the length of each lower ceiling panel between adjacent lower ceiling panels; the lower ceiling panels collectively defining an upper plenum (7) in the building above the underlying space and a lower plenum (8) in the underlying space; PCMs (17, 117, 117A, 117B1 317A, 517) on the lower ceiling panels; and means (3) for providing an air pressure difference between the upper and lower plenums.

IPC 8 full level
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