

Title (en)
PROCESS AND DEVICE FOR COOLING A SPACE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR KÜHLUNG EINES RAUMES

Title (fr)
PROCEDE ET DISPOSITIF POUR REFROIDIR UN LOCAL

Publication
EP 0800638 B1 20030212 (DE)

Application
EP 96934299 A 19961101

Priority
• CH 9600387 W 19961101
• CH 311995 A 19951103

Abstract (en)
[origin: WO9717576A1] In order to cool a space (1), a cooling element (3) fitted in the ceiling region is cooled to below freezing point, preferably to about -40 DEG C, during cooling phases so that the condensate forming thereon freezes immediately. During regeneration phases when the space (1) is not in use, the cooling element (3) is defrosted and the condensate is caught in a condensate trough (7) beneath the cooling element (3) and drained via a run-off (8). The great temperature difference also makes it possible to obtain a strong cooling effect with a small cooling element (3), especially by indirect radiation exchange between the space (1) and the cooling element (3) via a false ceiling (9). In addition the air in the space is dehumidified since water vapour is deposited on and bonded to the cooling element (3) in the form of ice.

IPC 1-7
F24F 5/00

IPC 8 full level
F24F 5/00 (2006.01)

CPC (source: EP US)
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