

Title (en)

Method and device for rapidly controlling room air temperature

Title (de)

Verfahren und Anordnung zur schnellen Steuerung der Raumlufttemperatur

Title (fr)

Méthode et appareil pour un contrôle rapide de la température de l'air ambiant

Publication

**EP 1843105 A3 20080604 (EN)**

Application

**EP 07251451 A 20070331**

Priority

GB 0606747 A 20060404

Abstract (en)

[origin: EP1843105A2] A method of rapidly controlling room temperature, comprises the steps of: a) providing primary heating and cooling means which is or includes a radiant ceiling coil (24) as hereinbefore defined in or on a ceiling (16) of a room (10); and b) providing secondary heating and cooling means which is or includes supplementary air (SA) which is dischargeable into the room (10). The supplementary air (SA) is or includes forced air (FA) from a forced air supply external of the room (10). The supplementary air (SA) is selectively pre-heated or pre-cooled to accelerate a heating or cooling effect of the primary heating and cooling means. A building having a room (10) in which the method is implemented, and a system for rapidly controlling the room temperature are also provided.

IPC 8 full level

**F24F 3/044** (2006.01); **F24F 1/0038** (2019.01); **F24F 5/00** (2006.01)

CPC (source: EP GB US)

**F24F 1/00075** (2019.02 - EP); **F24F 1/0035** (2019.02 - EP); **F24F 1/0038** (2019.02 - EP US); **F24F 1/0047** (2019.02 - EP GB US); **F24F 1/0071** (2019.02 - EP GB US); **F24F 3/00** (2013.01 - GB); **F24F 3/044** (2013.01 - EP); **F24F 5/0089** (2013.01 - EP); **F24F 6/00** (2013.01 - GB); **F24H 3/02** (2013.01 - GB); **F24F 1/0083** (2019.02 - EP GB US); **F24F 1/0087** (2019.02 - EP GB US); **F24F 2003/005** (2013.01 - GB)

Citation (search report)

- [X] US 3120866 A 19640211 - MILLS CLARENCE A
- [X] DE 1454561 A1 19700129 - FRENGER INTERNAT CORP
- [X] JP 2005024197 A 20050127 - UNIV NIHON, et al
- [X] US 2190822 A 19400220 - HANS BYLAND

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1843105 A2 20071010**; **EP 1843105 A3 20080604**; AU 2007201479 A1 20071018; AU 2007201479 B2 20120119; GB 0606747 D0 20060510; GB 2436867 A 20071010; GB 2436867 A8; GB 2436867 B 20111130; NZ 554283 A 20070831

DOCDB simple family (application)

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