

Title (en)

Zoned air conditioning system.

Title (de)

Klimaanlage für begrenzten Wirkungsbereich.

Title (fr)

Conditionnement de l'air agissant sur une zone limitée.

Publication

EP 0207718 A2 19870107 (EN)

Application

EP 86304873 A 19860624

Priority

- AU 5889886 A 19860616
- AU PH134185 A 19850705

Abstract (en)

A zoned air conditioning system using a room air terminal which has the same horizontal dimensions as a floor tile of a raised tile floor such that the terminal may replace one tile in such a floor. The terminal includes a cool air inlet below the floor for drawing in cooling air circulated in the under floor space and a return air inlet in the top surface of the terminal. The cool air and return air is mixed in a mixing chamber and drawn from the mixing chamber by a fan and returned to the room through an outlet vent. The ratio of cool air to return air mixed in the mixing chamber is controlled by a modulating damper which is controlled in response to the temperature of the return air in order to control the room temperature in the region of the terminal in accordance with an adjustable set point. A heater is also provided in the terminal for those occasions where the return air is cooler than the set point.

IPC 1-7

F24F 3/00; **F24F 7/10**

IPC 8 full level

F24F 3/00 (2006.01); **F24F 7/10** (2006.01)

CPC (source: EP)

F24F 3/00 (2013.01); **F24F 7/10** (2013.01); **F24F 2221/40** (2013.01)

Cited by

US6019677A; CN104729064A; FR2656071A1; US5360374A; DE102013003977A1; EP0607116A1; AT401423B; EP1571402A1; EP1918650A3; DE19548599A1; DE19548599C2; EP0427583A1; FR2654196A1; US5607354A; FR2621384A1; US6099406A; AU2006272443B2; EP2787287A1; EP2051017A3; WO2006041418A1; WO9309387A1; WO2007009169A1; WO9910685A1

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