

Title (en)

Method and apparatus for satisfying heating and cooling demands and control therefor.

Title (de)

Verfahren und Apparat zur Erfüllung von Heiz- und Kühlforderungen und demgemässe Steuerung.

Title (fr)

Procédé et dispositif pour satisfaire aux demandes de chauffage et de refroidissement et commande dans ce but.

Publication

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Application

EP 80106074 A 19801007

Priority

- US 8283779 A 19791009
- US 8729079 A 19791022

Abstract (en)

Apparatus (10) for satisfying heating and cooling demands comprising a cooling circuit (12) for satisfying the cooling demand and including a high pressure side (60) and a low pressure side (62); a heating circuit (14) for satisfying the heating demand and including a booster compressor (26) for drawing and compressing refrigerant vapor from the high pressure side (62) of the cooling circuit (12), and return means (72, 74, 32) for returning refrigerant from the heating circuit (14) to the cooling circuit (12); characterized by a sensor (Th.S.) for sensing the temperature of vapor discharged from the booster compressor (26); and means (38, 40, 42, 44, 46) responsive to the sensor (Th.S.) for terminating the heating action of the heating circuit (14) when the temperature of the vapor discharged from the booster compressor (26) exceeds a preset temperature.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR)

F25B 7/00 (2013.01 - KR); **F25B 29/003** (2013.01 - EP); **F25B 49/022** (2013.01 - EP)

Citation (search report)

- US 3522711 A 19700804 - SHAUGHNESSY WILLIAM J
- US 3011322 A 19611205 - TANZBERGER ERIC W, et al
- GB 2003264 A 19790307 - CARRIER CORP
- US 3635041 A 19720118 - ENDRESS JAMES W, et al
- US 2888809 A 19590602 - RACHFAL STANLEY J
- US 3859815 A 19750114 - KASAHARA KEISUKE
- US 3665724 A 19720530 - ANDERSON CARL M, et al
- GB 2017345 A 19791003 - CARRIER CORP
- US 3700914 A 19721024 - GRANIERI GEORGE JOHN, et al

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EP 0027243 A1 19810422; **EP 0027243 B1 19841219**; AR 230337 A1 19840301; AR 230881 A1 19840731; AU 534831 B2 19840216; AU 6307380 A 19810416; BR 8006410 A 19810512; CA 1129219 A 19820810; DE 3069841 D1 19850131; ES 495715 A0 19820201; ES 505488 A0 19821016; ES 8202630 A1 19820201; ES 8300406 A1 19821016; KR 830004578 A 19830713; KR 850001189 B1 19850819; MX 153274 A 19860908; NZ 195117 A 19840531

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