



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: F24F 13/22, 1/02	A1	(11) International Publication Number: WO 99/35450 (43) International Publication Date: 15 July 1999 (15.07.99)
(21) International Application Number: PCT/BR97/00075 (22) International Filing Date: 30 December 1997 (30.12.97) (71) Applicant (for BR only): SPRINGER-CARRIER S.A. [BR/BR]; Rua Berto Cirio, 521, São Luiz, CEP-92420-030 Canoas, RS (BR). (71) Applicant (for all designated States except BR US): CARRIER CORPORATION [US/US]; Carrier Parkway, P.O. Box 4800, Syracuse, NY 13221 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): DA SILVA, Regis, Batista [BR/BR]; Rua Wenceslau Braz, 217, Centro, São Leopoldo, RS (BR). (74) Agent: MOMSEN, LEONARDOS & CIA.; Rua Teófilo Otoni, 63 - 10º andar, CEP-20090-080 Rio de Janeiro, RJ (BR).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

This Sheet Has Been Replaced

**(54) Title:** CONDENSATE COLLECTION SYSTEM FOR A ROOM AIR CONDITIONER**(57) Abstract**

According to the present invention, an air conditioning unit (2) is provided which includes an indoor section (4) and an outdoor section (6), which are supported by a basepan and which are separated by a partition forming part of the basepan. The indoor section (4), includes an indoor fan (24) and an evaporator coil (22). During operation, the cold evaporator condenses water from the air being cooled and the condensate flows downwardly to the lower end of the evaporator (22) where it is collected and a flow path is provided from the indoor section (4) through the partition to the outdoor section (6). The lower end of the evaporator is supported by a substantially horizontal support surface. A condensate collection channel (108, 136) has a first portion located adjacent to, substantially parallel to and in fluid communication with the horizontal support surface. The first portion of the condensate collection channel (108) is inclined from a high point at one end thereof to a low point at the other end thereof. The condensate collection channel has a second portion in fluid flow communication with the other end of the first portion. The second portion is inclined from a high point where it is in flow communication with the first portion to a low point in the outdoor section (6) of the air conditioner (2).

THIS SHEET HAS BEEN
REPLACED