Title (en)
   FAN DEVICE

Title (de)
   GEBLÄSEVORRICHTUNG

Title (fr)
   DISPOSITIF VENTILATEUR

Publication
   EP 1400700 A4 20050105 (EN)

Application
   EP 02726494 A 20020527

Priority
  • JP 0205105 W 20020527
  • JP 2001166660 A 20010601

Abstract (en)
   [origin: EP1400700A1] A fan apparatus 1, which comprises a main body 3 having a dual tube composed of an outer tube 11 and an inner tube 13 and being rotatably supported by supporting members 7, and vanes 9 protruding from the outer surface of the outer tube 11 in the outward radial direction, the fan apparatus 1 being provided with inlet holes 29 to draw cooling air into the main body 3 and outlet holes 35 to discharge the cooling air to the outside, wherein the outer tube 11 has outer slits 21 formed in the outer surface thereof so as to communicate with the inside of the vanes 9, the inner tube 13 has inner slits 19 in positions such that each inner slit corresponds to each outer slit 21 in the outer surface thereof, and the cooling air that is sent into the inner tube 13 is supplied inside the vanes 9 through the inner slits 19 and the outer slits 21, and after passing through the space between the outer tube 11 and the inner tube 13, the air is discharged from the outlet holes 35. <IMAGE>

IPC 1-7
   F04D 29/58; F04D 29/44

IPC 8 full level
   F04D 29/44 (2006.01); **F04D 29/28** (2006.01); **F04D 29/58** (2006.01); **F25D 1/00** (2006.01); **F27B 9/12** (2006.01); **F27D 9/00** (2006.01)

CPC (source: EP)
   F04D 29/281 (2013.01); **F04D 29/582** (2013.01); **F04D 29/584** (2013.01)

Citation (search report)
  • [A] US 2656973 A 19531027 - SUTHERLAND CHARLES R
  • [A] US 4281963 A 19810804 - BUCHNER HEINRICH, et al
  • [A] DE 185003 A
  • [A] GB 470694 A 19370819 - XAVIER DE SPIRLET
  • See references of WO 02099289A1

Designated contracting state (EPC)
   AT BE CH CY DE ES FR IT LI

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   EP 1400700 A1 20040324; **EP 1400700 A4 20050105**; CN 1253663 C 20060426; CN 1513090 A 20040714; JP 2002364596 A 20021218; TW 546445 B 20030811; WO 02099289 A1 20021212

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