

Title (en)
Annular space heat exchanger.

Title (de)
Ringspaltwärmetauscher.

Title (fr)
Echangeur de chaleur à espace annulaire.

Publication
EP 0449124 B1 19950524 (DE)

Application
EP 91104485 A 19910322

Priority
DE 4010151 A 19900329

Abstract (en)
[origin: EP0449124A1] An annular space heat exchanger, which consists of at least three tubes (2-5) arranged concentrically one inside another, so that there are produced between the individual tubes annular spaces or annular chambers (7-9), through the respectively inner one of which the heat carrier, and through the respectively outer one of which the heat-absorbing medium flows, the heat carrier being gas, and the heat-absorbing medium a liquid medium, is to be constructed such that as high an efficiency as possible is achieved in conjunction with universal usability of the heat exchanger. Furthermore, it is to be possible to produce the heat exchanger with as low as possible an outlay on manufacturing. According to the invention, it is provided for this purpose that the heat-carrying medium is subjected in the inner annular chamber to a helical flow which conducts the medium around the inner tube. <IMAGE>

IPC 1-7
F28D 7/02; **F28D 7/10**; **F28F 1/36**

IPC 8 full level
F28D 7/02 (2006.01); **F28D 7/10** (2006.01); **F28F 1/36** (2006.01)

CPC (source: EP)
F28D 7/022 (2013.01); **F28D 7/103** (2013.01); **F28F 1/36** (2013.01); **F28F 13/08** (2013.01)

Cited by
EP1335649A4; CN104534909A; CN105473501A; CN106256763A; CN110530174A; GB2295889A; CN105258402A; IT201800004323A1; CN104501479A; CN105333613A; US9308510B2; US10221768B2; WO2014182397A1; WO03021177A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0449124 A1 19911002; **EP 0449124 B1 19950524**; AT E123139 T1 19950615; DE 59105547 D1 19950629

DOCDB simple family (application)
EP 91104485 A 19910322; AT 91104485 T 19910322; DE 59105547 T 19910322