

Title (en)
HEAT EXCHANGER

Publication
EP 0080161 A3 19831130 (EN)

Application
EP 82110610 A 19821118

Priority
JP 18577681 A 19811119

Abstract (en)
[origin: EP0080161A2] A heat exchanger of light weight having high heat exchange efficiency which comprises a chamber having an inlet and an outlet for a fluid, a columnar body positioned vertically at the center of the chamber and a plurality of pipes surrounding spirally the columnar body and arranged side by side at substantially a horizontal position, the pipes being supported by a plurality of supports fixed to the outer wall of the columnar body or the inner wall of the chamber.

IPC 1-7
F28D 7/04

IPC 8 full level
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CPC (source: EP)
F24H 1/165 (2013.01); **F24H 1/43** (2013.01); **F28D 7/02** (2013.01); **F28D 7/04** (2013.01)

Citation (search report)

- [X] US 1893484 A 19330110 - BELT JOSEPH S
- [A] BE 422424 A
- [A] FR 2155770 A1 19730525 - IND CHAUFFAGE
- [XP] FR 2501832 A1 19820917 - BONNEVILLE SIMONE [FR]
- [AP] FR 2482717 A1 19811120 - PSA [FR]
- [A] FR 2447528 A1 19800822 - ZUNDEL DANIEL

Cited by
CN109405589A; DE10234238B4; DE3925795A1; AT392839B; WO0155661A1; WO2011010280A1; WO8801362A1

Designated contracting state (EPC)
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