

Title (en)  
ROTARY HEAT EXCHANGER

Publication  
**EP 0053586 B1 19851106 (FR)**

Application  
**EP 81830228 A 19811116**

Priority  
IT 2639280 A 19801203

Abstract (en)  
[origin: EP0053586A2] A heated changer comprising a tubular stator, through which coolant is circulated, and a coaxial tubular rotor, through which a viscous liq. is passed between the stator and an external cooled jacket, is provided with a coaxial rectangular chassis carrying scraper blades to scour the outer face of the stator and the inner face of the rotor. Suitable for maintaining high heat transfer surface conditions in units passing solns. of polymers in hydrocarbon diluents, to inhibit build-up of superficial deposits. The chassis can rotate freely, being driven by hydrostatic drag from the rotor but slowed relative to the rotor by drag at the stator surface, so that the rotor face is also swept. Simpler than designs with positively driven scrapers. The chassis is supported from the opposite end of the unit to the stator. The liq. to be cooled enters and leaves via annular manifolds at opposite ends of the heat exchanger.

IPC 1-7  
**F28D 11/02**; **F28F 19/00**

IPC 8 full level  
**F28D 11/02** (2006.01); **F28F 19/00** (2006.01)

CPC (source: EP)  
**F28D 11/02** (2013.01); **F28F 19/008** (2013.01)

Cited by  
CN105972712A; FR2818367A1; CN113804031A; CN108590896A; CN112229251A; US7207376B2; US6658889B2; WO9201899A1; WO2004076955A1; WO03006898A1

Designated contracting state (EPC)  
BE CH DE FR GB LI NL

DOCDB simple family (publication)  
**EP 0053586 A2 19820609**; **EP 0053586 A3 19821222**; **EP 0053586 B1 19851106**; DE 3172846 D1 19851212; IT 1134568 B 19860813; IT 8026392 A0 19801203

DOCDB simple family (application)  
**EP 81830228 A 19811116**; DE 3172846 T 19811116; IT 2639280 A 19801203