

Title (en)  
TUBE BUNDLE EXCHANGER

Publication  
**EP 0219605 B1 19880608 (DE)**

Application  
**EP 86107768 A 19860606**

Priority  
DE 3533219 A 19850918

Abstract (en)  
[origin: US4700773A] A nested-tube heat exchanger with tubes that are secured at each end in tube plates, for exchanging heat between materials at very different pressures. The first material, which flows through the tubes is very hot when it enters. One tube plate is thinner than the other and rests on a supporting plate. The supporting plate is fastened to a jacket that surrounds the nest of tubes. Each tube is surrounded by an annular gap where they extend through the supporting plate. To prevent particles in the water from depositing on the thinner tube plate, there are supporting fingers between the thinner tube plate and the supporting plate, the supporting plate is fastened to an inner supporting jacket and the thinner tube plate to an outer supporting jacket, both supporting jackets are attached to the jacket that surrounds the nest of tubes and demarcate an annular chamber, and the outer supporting jacket has a connection for supplying water and the inner supporting jacket has an access aperture at the side of the annular chamber that is remote from the water-supply connection.

IPC 1-7  
**F28F 9/02**; **F22B 37/22**

IPC 8 full level  
**F28D 7/16** (2006.01); **F22B 1/18** (2006.01); **F22B 37/22** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP US)  
**F22B 1/1884** (2013.01 - EP US); **F28F 9/0229** (2013.01 - EP US); **F28F 9/026** (2013.01 - EP US)

Cited by  
EP0831273A1

Designated contracting state (EPC)  
DE FR GB IT NL

DOCDB simple family (publication)  
**DE 3533219 C1 19861113**; DE 3660297 D1 19880714; EP 0219605 A1 19870429; EP 0219605 B1 19880608; EP 0219605 B2 19910502; JP H0781793 B2 19950906; JP S6269091 A 19870330; SU 1443814 A3 19881207; US 4700773 A 19871020

DOCDB simple family (application)  
**DE 3533219 A 19850918**; DE 3660297 T 19860606; EP 86107768 A 19860606; JP 14399886 A 19860619; SU 4027764 A 19860707; US 88448086 A 19860711