

Title (en)  
HEAT EXCHANGER STRUCTURE PARTICULARLY FOR NUCLEAR PLANTS

Publication  
**EP 0110363 A3 19841219 (EN)**

Application  
**EP 83111880 A 19831128**

Priority  
IT 2460082 A 19821203

Abstract (en)  
[origin: EP0110363A2] To reduce costs both through material and labour savings of a nuclear plant heat exchanger, the latter comprises two quadrangular cross-section headers (1, 2) coupled by a yoke-like tube nest (3) which is cold pre-deformed in such a way as to minimize the primary stresses of thermal origin developed during the operation of the exchanger.

IPC 1-7  
**F28D 7/00; F28F 9/02**

IPC 8 full level  
**F28D 1/047** (2006.01); **F28D 7/06** (2006.01); **F28F 9/013** (2006.01); **F28F 9/02** (2006.01); **F28F 9/18** (2006.01)

CPC (source: EP)  
**F28D 1/047** (2013.01); **F28D 7/06** (2013.01); **F28F 9/0131** (2013.01); **F28F 9/02** (2013.01); **F28F 9/18** (2013.01); **F28D 2021/0054** (2013.01)

Citation (search report)  
• [A] US 3495556 A 19700217 - STEEVER ANDREW B, et al  
• [A] US 3134432 A 19640526 - MEANS HERBERT E  
• [A] FR 2347639 A1 19771104 - STEIN INDUSTRIE [FR]  
• [A] GB 1272578 A 19720503 - PARSONS C A & CO LTD  
• [A] DE 2713668 A1 19771103 - HITACHI LTD  
• [A] US 3697635 A 19721010 - DIETZSCH HANS JOACHIM, et al  
• [A] BE 689030 A 19670428

Cited by  
FR2566108A1; EP0165840A1; DE4310538A1

Designated contracting state (EPC)  
DE FR

DOCDB simple family (publication)  
**EP 0110363 A2 19840613; EP 0110363 A3 19841219**; IT 1154628 B 19870121; IT 8224600 A0 19821203; IT 8224600 A1 19840603

DOCDB simple family (application)  
**EP 83111880 A 19831128**; IT 2460082 A 19821203