

Title (en)

CLEANING DEVICE FOR HEAT EXCHANGERS WITH TUBE BUNDLES, PARTICULARLY FOR THE TUBE PLATE AND SPACER PLATE AREA

Publication

**EP 0307961 B1 19901227 (DE)**

Application

**EP 88115337 A 19880919**

Priority

DE 8712637 U 19870918

Abstract (en)

[origin: US4844021A] A cleaning device for heat exchangers having tube bundles includes a lance with nozzles to be introduced through an opening in a heat exchanger into a tube bundle in the heat exchanger. A hollow cylinder guides the lance. A flange connected to the hollow cylinder fastens the hollow cylinder at the opening of the heat exchanger. The lance is incrementally advanced. A pivot device for moving the lance includes a motor disposed on the hollow cylinder, a pendulum gear connected to the motor, and a carrier engaging the pendulum gear. The carrier has wheels guided in longitudinal grooves formed in the lance.

IPC 1-7

**F22B 37/48; F28G 3/16**

IPC 8 full level

**F22B 37/48** (2006.01); **F28G 3/16** (2006.01)

CPC (source: EP US)

**F22B 37/483** (2013.01 - EP US)

Cited by

EP0780627A1; FR2742858A1; US5782255A; GB2468650A; GB2468650B; GB2468651A; GB2468651B; WO2010106491A1

Designated contracting state (EPC)

BE DE FR SE

DOCDB simple family (publication)

**EP 0307961 A1 19890322; EP 0307961 B1 19901227**; DE 3861447 D1 19910207; DE 8712637 U1 19890112; US 4844021 A 19890704; YU 107688 A 19910228

DOCDB simple family (application)

**EP 88115337 A 19880919**; DE 3861447 T 19880919; DE 8712637 U 19870918; US 24536488 A 19880916; YU 107688 A 19880602