

Title (en)

A FIXED ROTATING DEVICE OF ONE ELEMENT IN A TUBE

Publication

EP 0148040 B1 19870325 (FR)

Application

EP 84402231 A 19841107

Priority

FR 8317820 A 19831109

Abstract (en)

[origin: US4595047A] A device for attaching an element for rotation in a tube comprises a conical sleeve, a hook and a link-pin. The link-pin interconnects the hook and the sleeve while permitting rotation of the hook. A particular application of the attachment device is to position an Archimedes' screw in the tubes of a multitubular heat exchanger, a steam condensor or the like. The assembly can be dismantled, if desired, and is adaptable to different tube diameters.

IPC 1-7

F28G 3/10; **F28F 13/12**

IPC 8 full level

F15D 1/02 (2006.01); **F28F 13/12** (2006.01); **F28G 3/10** (2006.01)

CPC (source: EP US)

F28F 13/125 (2013.01 - EP US); **F28G 3/10** (2013.01 - EP US)

Citation (examination)

US 4174750 A 19791120 - NICHOLS BILLY M [US]

Cited by

EP0233092A1; FR2592924A1

Designated contracting state (EPC)

AT BE CH DE GB IT LI LU NL SE

DOCDB simple family (publication)

US 4595047 A 19860617; AT E26174 T1 19870415; CA 1227790 A 19871006; DE 3462827 D1 19870430; EP 0148040 A1 19850710; EP 0148040 B1 19870325; ES 291783 U 19860516; ES 291783 Y 19870116; FR 2554520 A1 19850510; FR 2554520 B1 19860502; JP S60122897 A 19850701; ZA 848731 B 19850626

DOCDB simple family (application)

US 66910084 A 19841107; AT 84402231 T 19841107; CA 467378 A 19841108; DE 3462827 T 19841107; EP 84402231 A 19841107; ES 291783 U 19841108; FR 8317820 A 19831109; JP 23421684 A 19841108; ZA 848731 A 19841108