

Title (en)

Device for maintaining in position one extremity of a mobile element, rotating in a tube, and application for this device.

Title (de)

Vorrichtung, um das Ende eines in einem Rohr rotierenden beweglichen Elementes in Position zu halten, und Anwendung für diese Vorrichtung.

Title (fr)

Dispositif de maintien en position d'une extrémité d'un élément mobile, entraîné en rotation dans un tube, et application de ce dispositif.

Publication

**EP 0233092 A1 19870819 (FR)**

Application

**EP 87400023 A 19870108**

Priority

FR 8600293 A 19860110

Abstract (en)

1. A heat exchanger comprising a plurality of tubes in which a first fluid circulates, whereas a second fluid circulates externally of said tubes in such a way as to allow heat exchange between the two fluids, these tubes being provided with a device intended to prevent them from becoming clogged and comprising a movable metal element (4) of helically coiled type, which can be caused to rotate inside the tube (3), in which it is disposed, under the action of the fluid circulating therein, and an element for retaining the movable element in position, characterised in that said retaining element comprises, firstly, a bearing (1) formed by a yoke, the ends (8a, 8b) of the arms (1a, 1b) of which are of cylindrical shape intended to enclose the end of said tube, and the central portion (1c) of which comprises an opening (5) and, secondly, a swivel pin (2) formed by a straight portion (2a) inserted in said opening (5), one end (2b) of said straight portion being in the shape of a head (2c) designed to keep it captive in said bearing, whereas its other end (2b) is designed to be securely connected with the movable element.

Abstract (fr)

L'invention concerne un dispositif de maintien en position d'une extrémité d'un élément mobile (4), entraîné en rotation à l'intérieur d'un tube (3). Selon l'invention, ce dispositif comporte, d'une part, un organe (1) formant palier, dont une ou des parties (8a, 8b) de forme générale cylindrique enserre(nt) une extrémité dudit tube (3), d'autre part, un tourillon (2) monté rotatif par rapport audit palier (1) suivant l'axe de l'extrémité dudit tube (3) et apte être rendu solidaire de l'élément mobile (4) entraîné en rotation.

IPC 1-7

**F28F 19/00**; **F28G 3/08**

IPC 8 full level

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CPC (source: EP US)

**F28F 13/125** (2013.01 - EP US); **F28F 19/00** (2013.01 - EP US); **F28G 3/08** (2013.01 - EP US)

Citation (search report)

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