

Title (en)

PIPE GROUPING APPARATUS AND ITS USE

Title (de)

ROHRBÜNDELAPPARAT SOWIE DESSEN VERWENDUNG

Title (fr)

APPAREIL À FAISCEAUX TUBULAIRES AINSI QUE SON UTILISATION

Publication

EP 2984437 A1 20160217 (DE)

Application

EP 14717056 A 20140409

Priority

- EP 13163352 A 20130411
- EP 2014057126 W 20140409
- EP 14717056 A 20140409

Abstract (en)

[origin: WO2014166981A1] The invention relates to a tube bundle device, comprising a housing (3) having a tube bundle (9) accommodated therein, which tube bundle comprises tubes (15), which are connected to a first tube sheet (11) at one end and to a second tube sheet (13) at the end opposite the first tube sheet (11), wherein the first and second tube sheets (11, 13) are detachably fastened in the housing (3). The first tube sheet (11) is supported on a stop (31) on the housing (3) by means of the side of the first tube sheet opposite the tubes (15) and is fastened to the stop (31), and the second tube sheet (13) is guided in the housing (3) by means of a sealing element (41). The invention further relates to a use of the tube bundle device.

IPC 8 full level

F28F 9/02 (2006.01); **F28D 7/16** (2006.01)

CPC (source: EP US)

F28D 7/16 (2013.01 - EP US); **F28F 9/0226** (2013.01 - EP US); **F28F 9/026** (2013.01 - US)

Citation (search report)

See references of WO 2014166981A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014166981 A1 20141016; CN 105121990 A 20151202; CN 105121990 B 20180112; EP 2984437 A1 20160217; EP 2984437 B1 20170712; JP 2016514826 A 20160523; US 10267577 B2 20190423; US 2016047608 A1 20160218

DOCDB simple family (application)

EP 2014057126 W 20140409; CN 201480020665 A 20140409; EP 14717056 A 20140409; JP 2016506951 A 20140409; US 201414783278 A 20140409