Title (en)

A method for applying a closing plate to an end of a tubular element

Title (de)

Verfahren zum Anbringen einer Verschlusskappe an ein Ende eines röhrenförmigen Elements

Title (fr)

Procédé d'application d'une plaque de fermeture sur l'extrémité d'un élément tubulaire

Publication

EP 2131134 B1 20141022 (EN)

Application

EP 09161571 A 20090529

Priority

IT BO20080357 A 20080606

Abstract (en)

[origin: EP2131134A2] The method comprises: realising an annular seating (12) in a mouth (10) of the tubular element (1), which annular seating (12) has a predetermined depth (P) and is shaped such as to define a rest perimeter (13) in a bottom thereof situated internally of the tubular element (1); realising the plate (2, 20), with a plan profile which is complementary to a profile of the annular seating (12), the perimeter cut surfaces (22) of the profile being obliquely inclined in order to obtain a truncoconical conformation of the plate (2, 20) and with a thickness (S) of the plate being virtually equal to the depth (P) of the annular seating (12); inserting the plate (2, 20) in the annular seating (12), such that the perimeter cut surfaces (22) of the profile exhibit respective inclinations converging to a point located externally of the tubular element (1); fashioning an annularlip (11) of the tubular element (1) located externally on the seating (12), in order to superpose the annular lip (11) onto the perimeter cut surfaces (22), thus obtaining a mechanical blocking of the plate (2, 20) to the tubular element (1); activating sealing means (30) associated to the plate (2, 20) and destined to realise a sealed coupling between the plate (2, 20) and the tubular element (1).

IPC 8 full level

F28F 9/26 (2006.01); F28F 9/02 (2006.01)

CPC (source: EP)

F28F 9/02 (2013.01); F28F 9/268 (2013.01); F28D 2021/0035 (2013.01); F28F 2220/00 (2013.01); F28F 2275/122 (2013.01)

Cited by

ITBO20110676A1; WO2013080113A3

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2131134 A2 20091209; EP 2131134 A3 20110119; EP 2131134 B1 20141022; DK 2131134 T3 20150119; ES 2528187 T3 20150205; HR P20141252 T1 20150424; IT BO20080357 A1 20091207; PL 2131134 T3 20150430; PT 2131134 E 20150114; SI 2131134 T1 20150331

DOCDB simple family (application)

EP 09161571 A 20090529; DK 09161571 T 20090529; ES 09161571 T 20090529; HR P20141252 T 20141222; IT BO20080357 A 20080606; PL 09161571 T 20090529; PT 09161571 T 20090529; SI 200931106 T 20090529