

Title (en)  
LANCE HOLDER

Title (de)  
LANZENHALTER

Title (fr)  
PORTE-LANCE

Publication  
**EP 2252711 A1 20101124 (DE)**

Application  
**EP 09716569 A 20090220**

Priority  
• EP 2009001240 W 20090220  
• DE 102008012554 A 20080304

Abstract (en)  
[origin: CA2716431A1] A lance holder 1 characterized by a high degree of operational safety is equipped with a mounting or a pipe fixing, which safely prevents a rotation even of a bent lance pipe 2 in the lance holder 1. The clamping head 3 has a fixing part 4 and a clamping part 5, which ensure a punctiform fixation by way of displaceable pressure elements 14, particularly in the form of spheres 15. At least three such spheres 15 are disposed across the circumference in a distributed manner, and ensure the safe fixation across a large tolerance range with regard to the dimensions of the lance pipes 2. Said large tolerance region is further secured in that sealing sleeves 6 having a larger inside diameter may be used, since the same are no longer deformed in the longitudinal direction in order to provide the seal, but instead are deformed in the radial direction. In summary the high degree of operational safety is also completed by the association of a chip 47 and/or attachment of a nanocoating 53.

IPC 8 full level  
**C21C 5/46** (2006.01)

CPC (source: EP US)  
**C21C 5/4606** (2013.01 - EP US); **C21C 5/462** (2013.01 - EP US); **Y10T 137/7722** (2015.04 - EP US)

Citation (search report)  
See references of WO 2009109301A1

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)  
**DE 102008012554 A1 20090910; DE 102008012554 B4 20111222;** AU 2009221263 A1 20090911; AU 2009221263 B2 20121018; BR PI0908548 A2 20150929; BR PI0908548 B1 20180123; BR PI0908548 B8 20220906; CA 2716431 A1 20090911; CA 2716431 C 20160503; CN 102007225 A 20110406; CN 102007225 B 20130619; EP 2252711 A1 20101124; EP 2252711 B1 20131106; ES 2445691 T3 20140304; JP 2011514502 A 20110506; JP 5602028 B2 20141008; KR 101564477 B1 20151029; KR 20100124283 A 20101126; MX 2010009733 A 20100930; US 2011001021 A1 20110106; US 8298477 B2 20121030; WO 2009109301 A1 20090911; ZA 201005710 B 20110428

DOCDB simple family (application)  
**DE 102008012554 A 20080304;** AU 2009221263 A 20090220; BR PI0908548 A 20090220; CA 2716431 A 20090220; CN 200980107673 A 20090220; EP 09716569 A 20090220; EP 2009001240 W 20090220; ES 09716569 T 20090220; JP 2010549033 A 20090220; KR 20107020161 A 20090220; MX 2010009733 A 20090220; US 73602009 A 20090220; ZA 201005710 A 20100811