

Title (en)  
LOCKING DEVICE FOR TUBULAR ELEMENTS

Title (de)  
VORRICHTUNG ZUR VERRIEGELUNG VON ROHRFÖRMIGEN ELEMENTEN

Title (fr)  
DISPOSITIF POUR LE VERROUILLAGE D'ÉLÉMENTS TUBULAIRES

Publication  
**EP 2503092 B1 20160427 (EN)**

Application  
**EP 12159469 A 20120314**

Priority  
IT TO20110248 A 20110322

Abstract (en)  
[origin: EP2503092A1] A device for locking tubular elements to a drilling machine adapted to drive said tubular elements or casing pipes into the ground. Said drilling machine comprises a guiding mast and a rotary tool head (1) for handling drill strings which are slideable along the mast and are operated by a mechanism that causes axial movement. Said rotary head comprises a fixed part slideable along the guides of said mast or tower (2) and a rotary part connected to the first casing pipe piece, allowing rotation thereof about an axis of rotation (4).

IPC 8 full level  
**E21B 3/04** (2006.01); **E21B 7/02** (2006.01); **E21B 19/16** (2006.01)

CPC (source: EP)  
**E21B 3/04** (2013.01); **E21B 7/021** (2013.01); **E21B 19/16** (2013.01)

Cited by  
CN103075109A; US10113619B2

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

DOCDB simple family (publication)  
**EP 2503092 A1 20120926; EP 2503092 B1 20160427**; IT TO20110248 A1 20120923

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