

Title (en)

AN APPARATUS FOR INSERTING A TOOL INTO THE GROUND AND CONTINUOUSLY ROTATING IT

Publication

**EP 0103283 B1 19880706 (EN)**

Application

**EP 83108909 A 19830909**

Priority

IT 2322182 A 19820913

Abstract (en)

[origin: EP0103283A2] The inventive apparatus comprises a hollow implement for selectively gripping and rotating a tool carrier tube (T) penetrating into said hollow implement, said implement including: a) an actuating head (1) for maintaining the tool carrier tube (T) in rotation; b) a vice (2) made integral with said rotating hollow means, which vice is operated by a not rotating hollow jack (50) arranged concentrically to said rotating hollow means, which jack is suitable to receive therein said tool carrier tube. Preferably, the jack (50) has an axially secured hollow piston (29), while the jacket thereof (38) is movable and controls the radial displacement of the tube gripping jaws (33) through inclined planes or surfaces (27a, 33a).

IPC 1-7

**E21B 7/20**; **E02D 7/26**; **E02D 7/22**

IPC 8 full level

**E02D 7/22** (2006.01); **E02D 7/26** (2006.01); **E21B 3/02** (2006.01); **E21B 7/20** (2006.01)

CPC (source: EP US)

**E02D 7/22** (2013.01 - EP); **E02D 7/26** (2013.01 - EP); **E21B 3/02** (2013.01 - EP US); **E21B 7/20** (2013.01 - EP)

Cited by

US7591612B2; EP1660729A4; US2015016893A1; US9371624B2; JP2016223237A; US8534960B2; WO2004042152A1; WO2010014039A1; US10995563B2; US11136837B2

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL

DOCDB simple family (publication)

**EP 0103283 A2 19840321**; **EP 0103283 A3 19840926**; **EP 0103283 B1 19880706**; AT E35564 T1 19880715; DE 3377290 D1 19880811; IT 1190999 B 19880224; IT 8223221 A0 19820913

DOCDB simple family (application)

**EP 83108909 A 19830909**; AT 83108909 T 19830909; DE 3377290 T 19830909; IT 2322182 A 19820913