

Title (en)
PIPE ROLLER-EXPANDING DEVICE.

Title (de)
AUFWEITWERKZEUG FÜR ROHRE.

Title (fr)
DISPOSITIF DE MANDRINAGE DE TUBES.

Publication
EP 0397875 B1 19940216

Application
EP 89902699 A 19890608

Priority
• CA 609485 A 19890825
• SU 8800238 W 19881122

Abstract (en)
[origin: WO9005831A1] The device is intended for roller-expanding the profiled pipes which are mounted to close off well drilling complication zones, as well as to straighten distorted casing pipes. The device comprises a casing (1) and a roller-expanding element (3) mounted in bearings (4, 5) on a pivot journal (2) located on the casing (1) at an angle to the longitudinal axis of the latter. The roller-expanding element (3) consists of a spherical segment (9) whose external surface consists of interchanging sections of spherical surfaces (10) and lateral cylindrical surfaces (11), whose geometrical axes are located in a plane perpendicular to the axis (13) of the pivot journal (2).

IPC 1-7
E21B 29/10

IPC 8 full level
B21D 41/02 (2006.01); **E21B 29/10** (2006.01); **E21B 43/10** (2006.01)

CPC (source: EP US)
B21D 41/02 (2013.01 - EP US); **E21B 29/10** (2013.01 - EP US); **E21B 43/103** (2013.01 - EP US); **E21B 43/105** (2013.01 - EP US); **Y10T 29/4994** (2015.01 - EP US); **Y10T 29/53652** (2015.01 - EP US)

Cited by
EP0952306A1; US5861318A; WO9955999A1; WO9325799A1; US6446724B2; US6561271B2; US6598677B1; US6631765B2; US6915852B2

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0397875 A1 19901122; **EP 0397875 A4 19920108**; **EP 0397875 B1 19940216**; AU 3189889 A 19900612; AU 621350 B2 19920312; CA 1322151 C 19930914; DE 3887905 D1 19940324; NO 174637 B 19940228; NO 174637 C 19940608; NO 903219 D0 19900718; NO 903219 L 19900718; US 5014779 A 19910514; WO 9005831 A1 19900531

DOCDB simple family (application)
EP 89902699 A 19890608; AU 3189889 A 19891122; CA 609485 A 19890825; DE 3887905 T 19881122; NO 903219 A 19900718; SU 8800238 W 19881122; US 55550790 A 19900802