

Title (en)

HYDRAULIC THRUSTER FOR USE IN A DRILL STRING

Title (de)

HYDRAULISCHE SCHUBVORRICHTUNG ZUR VERWENDUNG IN EINER BOHRSTANGE

Title (fr)

PROPULSEUR HYDRAULIQUE POUR TRAIN DE SONDE

Publication

**EP 0835360 B1 19990317 (EN)**

Application

**EP 96923945 A 19960626**

Priority

- EP 96923945 A 19960626
- EP 9602798 W 19960626
- EP 95201736 A 19950627

Abstract (en)

[origin: WO9701693A1] A hydraulic thruster (1) for generating a thrust force to a drill bit located at the lower end of a drill string is provided. The thruster comprises a first member (3) connectable to an upper part of the drill string and a second member (5) connectable to a lower part of the drill string, said members being telescopically arranged relative to each other and being capable of transmitting torque between the upper and lower part of the drill string during drilling. A fluid passage (9) for passing through said members (3, 5) for drilling fluid flowing through the drill string towards the drill bit and means (11, 15) for generating an inward telescoping reaction of said members upon transmission of torque between the upper and lower part of the drill string during drilling are provided.

IPC 1-7

**E21B 44/00**; **E21B 17/07**

IPC 8 full level

**E21B 17/07** (2006.01); **E21B 44/00** (2006.01)

CPC (source: EP)

**E21B 17/073** (2013.01); **E21B 44/005** (2013.01)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 9701693 A1 19970116**; CA 2224720 A1 19970116; DE 69601800 D1 19990422; DE 69601800 T2 19990909; EP 0835360 A1 19980415; EP 0835360 B1 19990317; JP H11508650 A 19990727

DOCDB simple family (application)

**EP 9602798 W 19960626**; CA 2224720 A 19960626; DE 69601800 T 19960626; EP 96923945 A 19960626; JP 50417697 A 19960626