

Title (en)

Retractable or foldable thruster using a rotatingly deformable trapezoidal device to generate a rectilinear movement at the inside of a niche.

Title (de)

Faltbarer oder einziehbarer Schubantrieb mit einer Parallelogrammvorrichtung, welche mit rotierender Verformung eine geradlinige Bewegung im Inneren eines Schachtes erzeugt.

Title (fr)

Propulseur rétractable ou escamotable utilisant un dispositif trapézoïdal à rotation déformante engendrant un mouvement rectiligne à l'intérieur d'un puits.

Publication

EP 0503206 B1 19951115 (FR)

Application

EP 91480046 A 19910308

Priority

FR 8912876 A 19890929

Abstract (en)

[origin: FR2652559A1] The subject of the invention is a retractable or withdrawable thruster using a trapezoidal device with deforming rotation generating a rectilinear movement inside a well. The thruster is retractable or withdrawable and is composed of a casing (1) fixed in leaktight manner on mating surfaces, onto a well (2) forming an integral part of the structure (3) of the craft. Inside this casing (1) are folded two arms (4) and (5) which pivot asymmetrically, a motorised base part (10), a stirrup piece (yoke) (17) and a helical assembly. The two arms (4) and (5), on the one hand, are pinned at (6) and (7) on the casing (1) and, on the other hand, at (8) and (9) on the stirrup piece (17) secured to propulsion base part (10). Under the manual or mechanical action (X) or (Y) exerted on the lever (12) secured to the arm (4) via the shaft (6), the said arm (4) in compound rotation with the triangulation arm (5) orders the deformation of the trapezium obtaining a rectilinear movement along the axis (AZ) of the base part (10) at its centre (11). <IMAGE>

IPC 1-7

B63H 20/00

IPC 8 full level

B63H 20/00 (2006.01); **B63H 25/42** (2006.01); **B63H 5/14** (2006.01)

CPC (source: EP US)

B63H 25/42 (2013.01 - EP US); **B63H 5/14** (2013.01 - EP US); **B63H 2025/425** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES GB IT NL

DOCDB simple family (publication)

FR 2652559 A1 19910405; **FR 2652559 B1 19950428**; DE 69114689 D1 19951221; DE 69114689 T2 19960704; EP 0503206 A1 19920916; EP 0503206 B1 19951115; ES 2082172 T3 19960316; US 5152240 A 19921006

DOCDB simple family (application)

FR 8912876 A 19890929; DE 69114689 T 19910308; EP 91480046 A 19910308; ES 91480046 T 19910308; US 67758291 A 19910329