

Title (en)

Compliant buoyancy cans and guides for stem pipe of risers

Title (de)

Nachgiebige Auftriebskörper und Führungen für Aussenrohre von Steigrohren

Title (fr)

Cylindres de flottabilité adaptables et guidages pour tubes extérieurs de colonnes montantes.

Publication

EP 1398267 A1 20040317 (EN)

Application

EP 03254719 A 20030728

Priority

US 24160702 A 20020911

Abstract (en)

A buoyancy can (12) attached to the upper portion of a riser (22) has a predetermined complaint dynamic radial response to environmental forces. A stem (14) attached to the can receives the riser inside the stem. Slip rings (16) attached along the stem closely receive the stem, and allow vertical movement of the stem and the riser.

IPC 1-7

B63B 22/02; **E21B 17/01**

IPC 8 full level

B63B 22/02 (2006.01); **B63B 35/44** (2006.01); **E21B 17/01** (2006.01)

CPC (source: EP)

B63B 22/021 (2013.01); **B63B 35/4406** (2013.01); **E21B 17/012** (2013.01)

Citation (applicant)

US 5558467 A 19960924 - HORTON EDWARD E [US]

Citation (search report)

- [X] US 6176646 B1 20010123 - FINN LYLE DAVID [US], et al
- [X] US 6309141 B1 20011030 - COX BOBBY EUGENE [US], et al
- [X] US 6161620 A 20001219 - COX BOBBY EUGENE [US], et al
- [X] WO 0188324 A1 20011122 - EDO CORP FIBER SCIENCE DIV [US], et al
- [Y] WO 0141549 A2 20010614 - FMC CORP [US]
- [Y] US 4634314 A 19870106 - PIERCE ROBERT H [US]

Cited by

CN102434130A; CN106080976A

Designated contracting state (EPC)

FR GB IT

DOCDB simple family (publication)

EP 1398267 A1 20040317; BR 0302593 A 20040824; BR 0302593 B1 20110809; CA 2439788 A1 20040311; NO 20033999 D0 20030910; NO 20033999 L 20040312; ZA 200306196 B 20040311

DOCDB simple family (application)

EP 03254719 A 20030728; BR 0302593 A 20030725; CA 2439788 A 20030908; NO 20033999 A 20030910; ZA 200306196 A 20030811