

Title (en)

Adjustable bent sub.

Title (de)

Kniestückteil mit einstellbarem Winkel.

Title (fr)

Raccord coudé à angle variable.

Publication

**EP 0465072 A2 19920108 (EN)**

Application

**EP 91305677 A 19910624**

Priority

CA 2019898 A 19900626

Abstract (en)

There is described an adjustable bent sub comprising a cylindrical housing having a first uphole portion and a second downhole portion, the up and downhole portions being axially offset to one another, a tubular mandrel having a first uphole end and a second downhole end, the up and downhole ends being axially offset to one another, the uphole end of the mandrel being receivable within the housing means for longitudinal and rotational movement relative thereto, connectors provided between the mandrel and the housing to prevent the relative rotation thereof when the mandrel is in a first locked position relative to the housing, a lock actuatable to maintain the mandrel in a first locked position thereof or to release the mandrel for longitudinal movement thereof relative to the housing into a second unlocked position in which the mandrel and housing are free to rotate relative to one another, a piston concentrically disposed in the housing for longitudinal movement relative thereto, and a spring concentrically disposed in the housing for biasing the piston into contact with an end of the mandrel, wherein the rotation of the mandrel relative to the housing increases or decreases the amount of bend in the bent sub between predetermined limits. <IMAGE>

IPC 1-7

**E21B 7/06**

IPC 8 full level

**E21B 7/06** (2006.01)

CPC (source: EP)

**E21B 7/067** (2013.01)

Cited by

US5441119A; EP0561072A1; GB2281332A; GB2281332B; WO9323652A1

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