

Title (en)

Improved jar tool for drill strings.

Title (de)

Schlagschieber für Bohrgestänge.

Title (fr)

Coulisses de battage pour tiges de forage.

Publication

**EP 0083961 A2 19830720 (EN)**

Application

**EP 83300016 A 19830105**

Priority

CA 393583 A 19820106

Abstract (en)

A jar tool for use in a drill string for use in dislodging a drill bit or well-tools trapped in well bores. The tool comprises an outer housing adapted to move longitudinally with respect to an inner spline mandrell. A piston assembly is acted on by a piston actuator and hydraulic fluid restricts the movement of the piston assembly and, therefore, the movement of the mandrell relative to the housing while the piston assembly is within a narrower portion of a hydraulic cylinder. When the piston assembly reaches a larger diameter portion of the cylinder, the hydraulic fluid rushes past the piston assembly which allows a knocker connected to the spline mandrell to collide with the outer housing. A compression spring returns the piston assembly to its rest position abutting a shoulder on the outer housing. Provision is made for a valve to be inserted in the piston assembly so that the system can be temperature compensated and more desirable hydraulic fluids can be used.

IPC 1-7

**E21B 31/113**

IPC 8 full level

**E21B 31/113** (2006.01)

CPC (source: EP)

**E21B 31/113** (2013.01)

Cited by

CN109441387A; GB2362904A; GB2362904B; GB2340154A; GB2340154B; CN113338832A; US7299872B2

Designated contracting state (EPC)

AT BE DE FR GB NL SE

DOCDB simple family (publication)

**EP 0083961 A2 19830720; EP 0083961 A3 19840725; CA 1177058 A 19841030**

DOCDB simple family (application)

**EP 83300016 A 19830105; CA 393583 A 19820106**