

Title (en)

APPARATUS FOR TRANSMITTING INFORMATION FROM A WELL TO THE SURFACE DURING DRILLING

Publication

**EP 0172452 B1 19880127 (DE)**

Application

**EP 85109490 A 19850727**

Priority

DE 3428931 A 19840806

Abstract (en)

[origin: US4698794A] In a device for the transmission of information from a borehole to the surface during the operation of a drilling device which comprises a rotary drill bit, a tubular housing and a pump which delivers a drilling fluid downwards through the tubular housing, through the rotary drill bit and upwards in the annular space between the tubular housing and the borehole, there is provided a detector arranged in the tubular housing, for detecting information, a processor for converting that information into a sequence of electrical control signals and a transducer for generating pressure pulses in the downwardly-directed flow of drilling fluid as a function of the control signals, and a remote detector arranged at a position spaced from the processor by a wire-less transmission path with a transmitter unit associated with the remote detector at one end of said path and a receiver unit at the other end of said path.

IPC 1-7

**E21B 47/12**

IPC 8 full level

**E21B 4/02** (2006.01); **E21B 47/18** (2012.01)

CPC (source: EP US)

**E21B 4/02** (2013.01 - EP US); **E21B 47/18** (2013.01 - EP US); **E21B 47/20** (2020.05 - EP US)

Designated contracting state (EPC)

BE FR GB IT NL SE

DOCDB simple family (publication)

**DE 3428931 C1 19850605**; CA 1235313 A 19880419; EP 0172452 A1 19860226; EP 0172452 B1 19880127; JP S6149096 A 19860310; US 4698794 A 19871006

DOCDB simple family (application)

**DE 3428931 A 19840806**; CA 487273 A 19850723; EP 85109490 A 19850727; JP 17126785 A 19850805; US 75771185 A 19850722