

Title (en)
COMMUNICATION SYSTEM FOR TRANSMITTING INFORMATION RELATING TO DRILLING RODS

Title (de)
KOMMUNIKATIONSSYSTEM ZUR ÜBERTRAGUNG VON INFORMATIONEN ÜBER BOHRGESTÄNGE

Title (fr)
SYSTÈME DE COMMUNICATION PERMETTANT LA TRANSMISSION D'INFORMATIONS PAR L'INTERMÉDIAIRE DE TIGES DE FORAGE

Publication
EP 2558682 B1 20180919 (DE)

Application
EP 11735590 A 20110412

Priority

- DE 102010047568 A 20101008
- DE 102010014706 A 20100412
- EP 2011001826 W 20110412

Abstract (en)
[origin: WO2011128068A2] The invention relates to a communication system for transmitting information relating to drilling rods of a drill string for earth boreholes. The system comprises a plurality of drilling rods (3, 4, 5, 6, 8, 9, 10, 80) which can be connected to one another, a drill drive (7) and a surface computer (100, 101), wherein at least a drilling rod (8, 80) has a receptacle for a drill head and sensors and/or actuators, to or from which data are to be transmitted to or from the surface computer (100, 101). In this case, each drilling rod is formed from a drill pipe (11) which is in the form of a hollow cylinder and has at least one line (21, 22) extending in the axial direction and has an upper end (13) and a lower end (14). Communication units, between which data is interchanged via the at least one electrical line (21, 22), are respectively arranged at the ends (13, 14), wherein the communication units (17, 19) transmit data to the respectively adjacent communication unit (17, 19) of the connected drilling rod by radio.

IPC 8 full level
E21B 47/12 (2012.01)

CPC (source: EP US)
E21B 17/028 (2013.01 - EP US); **E21B 47/13** (2020.05 - EP US)

Cited by
US10781665B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2011128068 A2 20111020; WO 2011128068 A3 20130131; DE 102010047568 A1 20111215; DK 2558682 T3 20190114; EP 2558682 A2 20130220; EP 2558682 B1 20180919; PL 2558682 T3 20190228; US 2013027216 A1 20130131; US 9982529 B2 20180529

DOCDB simple family (application)
EP 2011001826 W 20110412; DE 102010047568 A 20101008; DK 11735590 T 20110412; EP 11735590 A 20110412; PL 11735590 T 20110412; US 201113640739 A 20110412