

3 Documents

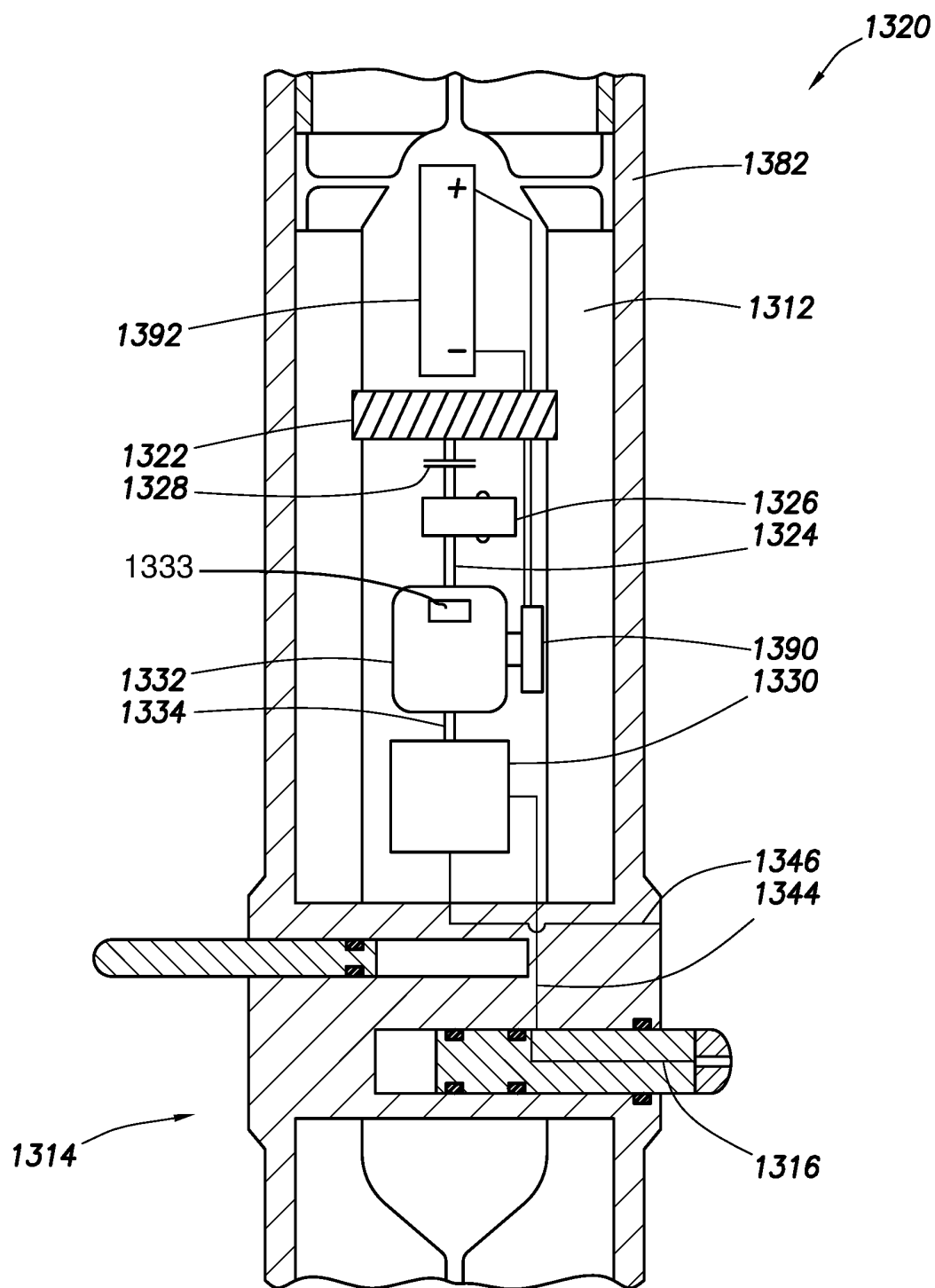
Publication numbers	Title	Current assignees
EP2354444 A2	Pumping System and Method for a Downhole Tool	SCHLUMBERGER TECHNOLOGIES
WO200926051 A1	Apparatus and methods to control fluid flow in a downhole tool	SCHLUMBERGER TECHNOLOGIES
US3743034 A	Steerable drill string	SHELL

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Title

(EP2354444)

Pumping System and Method for a Downhole Tool

Images**Publication data including kind & date**

EP2354444	A2	2011-08-10	EP2354444
EP2354444	A3	2015-05-27	EP2354444
EP2354444	B1	2018-11-21	EP2354444
US20110164999	A1	2011-07-07	US20110164999



[US20140332202](#)

A1 2014-11-13 US20140332202

[US10208558](#)

B2 2019-02-19 US10208558

**Abstract**

(EP2354444)

A system and a method are disclosed herein that relate to powering a pumping system within a downhole tool. The system may include a turbine having a shaft extending therefrom, in which the turbine is configured to convert energy from a fluid received therein into rotational energy for the shaft. The system may further include a pumping system coupled to the shaft of the turbine, in which the pumping system includes one or more driving devices coupled to one or more displacement units. The displacement units may have a cavity formed therein, in which the cavity is configured to receive a fluid therein. The driving devices may then be configured to drive the displacement units such that the fluid is received within the cavity of the displacement units.

Inventors

MEEK DALE

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Latest standardized assignees - inventors removed

SCHLUMBERGER TECHNOLOGIES

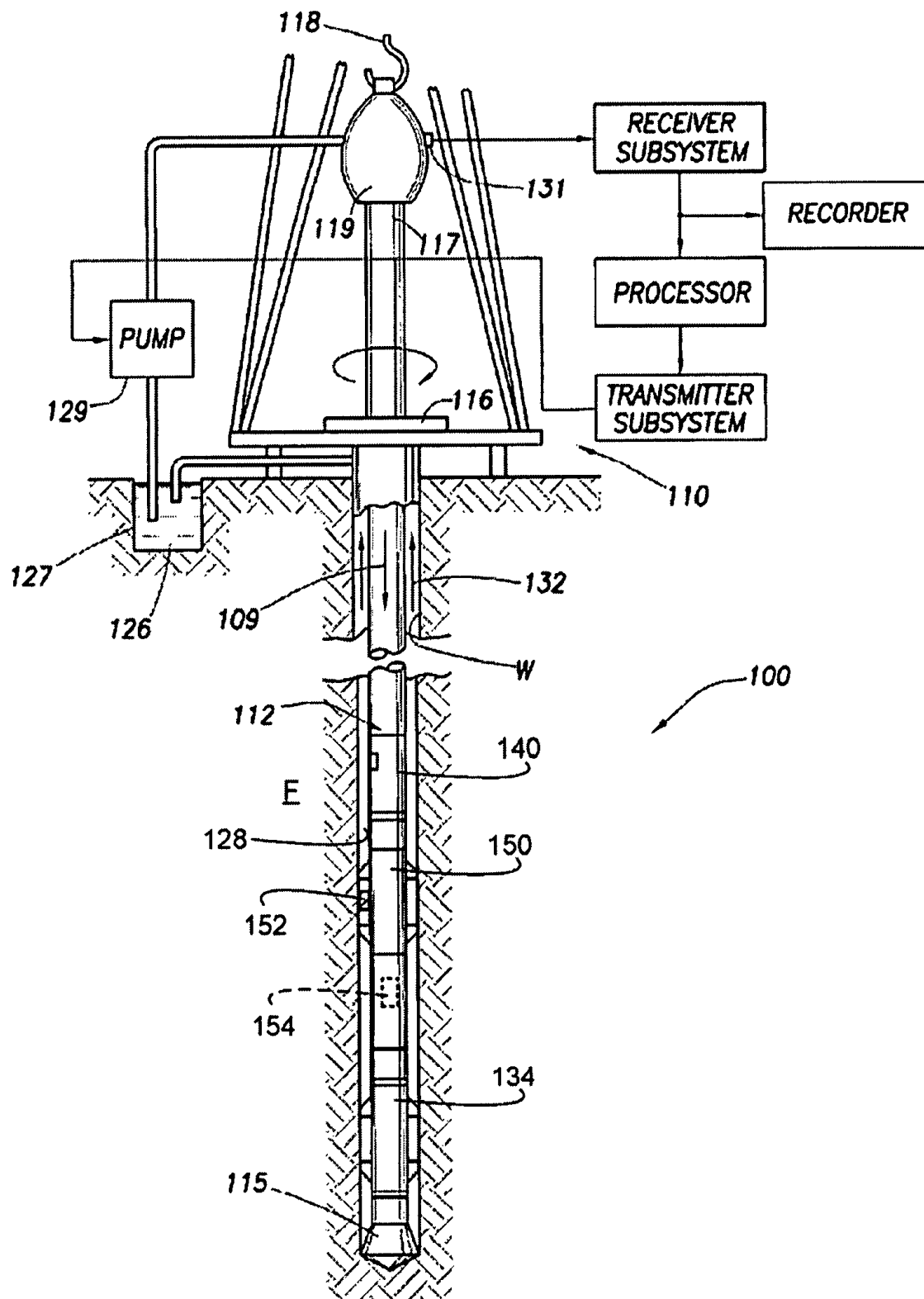
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Title

(WO200926051)

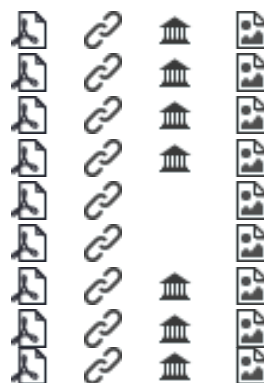
Apparatus and methods to control fluid flow in a downhole tool

Images



Publication data including kind & date

WO2009/026051	A1	2009-02-26	WO200926051
WO2009/026051	A4	2009-04-30	WO200926051
US20090044951	A1	2009-02-19	US20090044951
US7934547	B2	2011-05-03	US7934547
RU2010109905	A	2011-09-27	RU2010109905
RU2470153	C2	2012-12-20	RU2470153
CN101368559	A	2009-02-18	CN101368559
CN101368559	B	2015-04-08	CN101368559B



CA2696581	A1	2009-02-26	CA2696581				
CA2696581	C	2012-12-18	CA2696581				
IN0902/CHENP/2010	A	2010-09-03	IN2010CN00902				
IN306192	B	2019-01-24	IN-306192				

Abstract

(WO2009/026051)

The present invention relates to a pumping system (600) for controlling fluid flow in a downhole tool (200). The pumping system includes a hydraulically actuatable device including at least one cavity for receiving pressurized hydraulic fluid (616) and a reservoir (608) for storing the hydraulic fluid. A first (602a) and second (602b) hydraulic pump include an inlet (612a, 612b) fluidly coupled to the reservoir (608) and an outlet (614a, 614b) fluidly coupled (616) to the at least one cavity. At least one motor (604) is operatively coupled to at least one of the first (602a) and second (602b) hydraulic pumps. In addition, the system includes means (622a, 622b) for selectively flowing hydraulic fluid from the outlet of at least one of the first and second pumps to the at least one cavity.

Inventors

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SCHLUMBERGER TECHNOLOGIES

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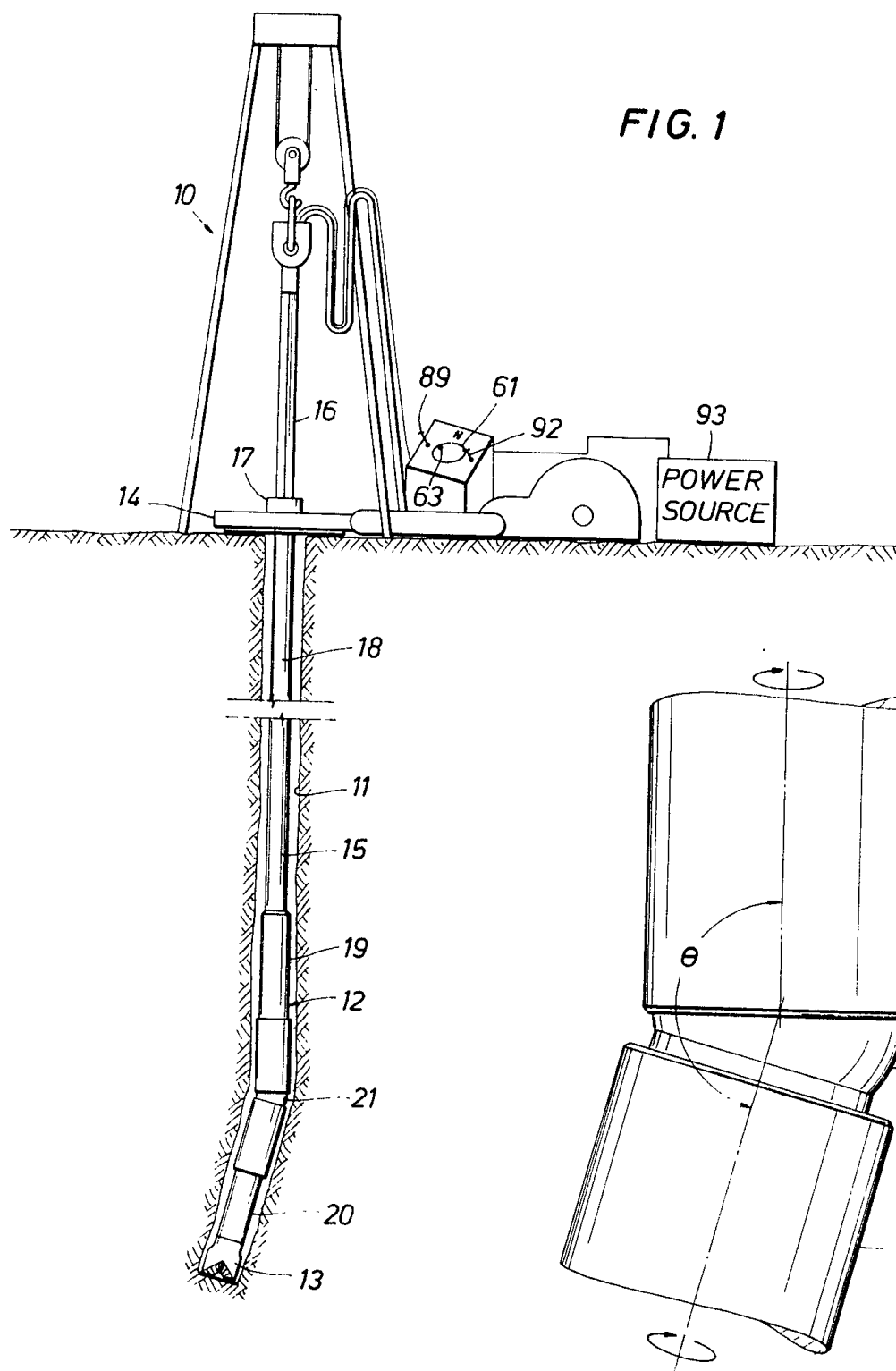
Title

(US3743034)

Steerable drill string

Images

SHEET 1 OF 3



W. B. BRADLEY
INVENTOR

Publication data including kind & date

US3743034

A 1973-07-03 US3743034

Abstract

(US3743034)



Method and apparatus for maintaining the orientation of a laterally unsupported driven shaft constant with respect to a non-rotating coordinate system as the driven shaft is rotated by a non-coaxial rotating driving shaft. In a directional drilling method, the apparatus is disposed in a well drill string along with means for adjusting the orientation of the portion of the drill string below the apparatus to provide a steerable drill string. The apparatus for maintaining the orientation of the shafts comprises an axial-piston machine mounted on one of the shafts and operatively connected to a control flange affixed to the other of the shafts. A universal coupling connects the shaft in driving-driven relationship. The deflection of the shaft at the universal joint is maintained constant with respect to a non-rotating coordinate system by driving the pistons of the axial piston machine in timed relationship with the rotation of the shafts so that each piston completes one reciprocating cycle each time the shafts complete one rotation.

Inventors

BRADLEY W

Latest standardized assignees - inventors removed

SHELL