
(12) UK Patent Application (19) GB 2555007 (13) A
(43) Date of Reproduction by UK Office 18.04.2018

(21) Application No:	1716215.7	(51) INT CL: E21B 34/06 (2006.01) F16K 5/20 (2006.01)
(22) Date of Filing:	14.05.2015	(56) Documents Cited:
Date Lodged:	05.10.2017	WO 2013/119255 A1 US 20090283787 A1 US 20030205688 A1
(86) International Application Data: PCT/US2015/030736 En 14.05.2015		(58) Field of Search: INT CL E21B, F16K Other: eKOMPASS (KIPO internal)
(87) International Publication Data: WO2016/182574 En 17.11.2016		

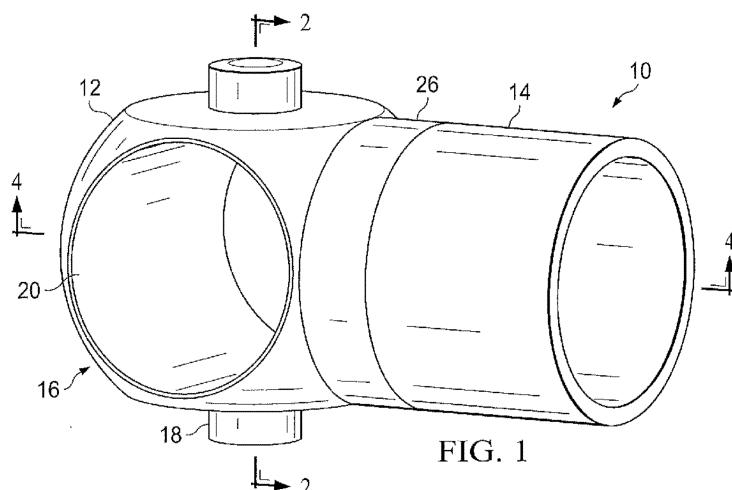
(71) Applicant(s):
Halliburton Energy Services, Inc.
3000 N. Sam Houston Parkway E., Houston 77032,
Texas, United States of America

(72) Inventor(s):
Roy Archibald Napier

(74) Agent and/or Address for Service:
Withers & Rogers LLP
4 More London Riverside, LONDON, SE1 2AU,
United Kingdom

(54) Title of the Invention: **Ball and seat valve for high temperature and pressure applications**
Abstract Title: **Ball and seat valve for high temperature and pressure applications**

(57) A ball and seat valve for high temperature and pressure applications, such as those used in isolation barrier valves in subterranean wells, is disclosed. The valve incorporates thermally fitted sleeve into the ball and/or the seat to allow for greater pressures and temperatures due to resultant stresses left with the parts due to interference. Additionally, the materials making up the sleeves may be chosen to allow for greater resistance to corrosive and erosive wellbore fluids.



This international application has entered the national phase early

GB 2555007 A