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(54) **LOCAL ELECTRIC POWER GENERATION FOR TONG CONTROL SYSTEM**

(57) A method and apparatus for tong power and control. A tong includes a tong control system; and a local electric power generation system, wherein the tong control system is powered by the local electric power generation system. A method includes supplying hydraulic power to a motor on a tong; driving an electric generator on the tong with the motor; and supplying electric power to a tong control system on the tong. A method includes installing a tong control system on a tong; and installing a local electric power generation system on the tong, wherein the tong control system is powered by the local electric power generation system.

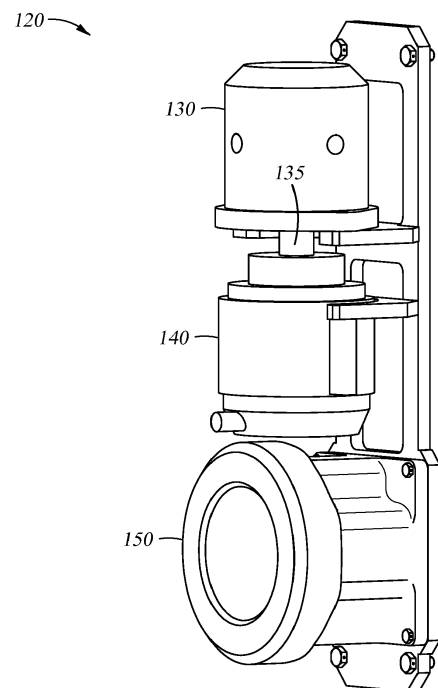


Fig. 2

EP 3 444 426 A3

**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

EP 18 17 3422

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2017/067303 A1 (THIEMANN BJOERN [DE] ET AL) 9 March 2017 (2017-03-09) * paragraph [0005] - paragraph [0006] * * paragraph [0020] * * paragraph [0056] - paragraph [0061] * * paragraph [0073] - paragraph [0077] * * paragraph [0087] - paragraph [0091] * * figures * * abstract *	1-13	INV. E21B19/16
X	US 2005/269072 A1 (FOLK ROBERT A [CA] ET AL) 8 December 2005 (2005-12-08) * paragraph [0054] * * paragraph [0069] - paragraph [0074] * * paragraph [0088] * * figures 3, 8 *	1,10	
			TECHNICAL FIELDS SEARCHED (IPC)
			E21B
INCOMPLETE SEARCH			
<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search: see sheet C</p>			
Place of search		Date of completion of the search	Examiner
Munich		5 February 2019	Pieper, Fabian
CATEGORY OF CITED DOCUMENTS		<p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>	
<p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p>			

EPO FORM 1503 03.82 (P04E07)



**INCOMPLETE SEARCH
SHEET C**

Application Number

EP 18 17 3422

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Claim(s) completely searchable:
1-13

Claim(s) not searched:
14, 15

Reason for the limitation of the search:

In reply to the invitation pursuant to Rule 62a(1) EPC to indicate the claims on which the search is to be based, the applicant failed to supply the requested indication in due time.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 18 17 3422

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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05-02-2019

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82