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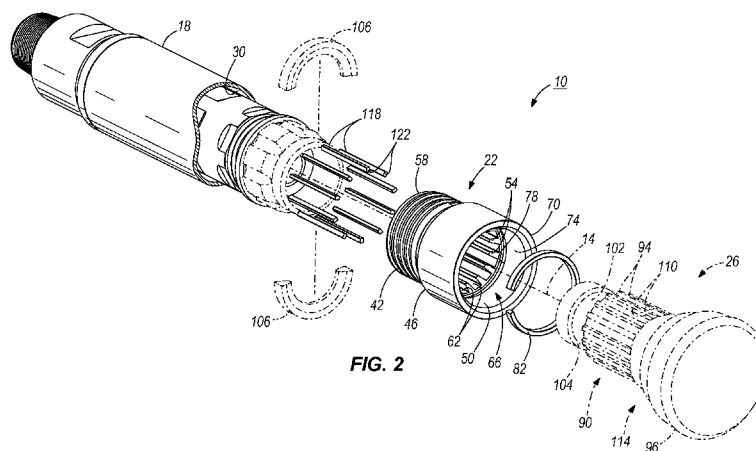
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(54) Title: DRIVE PIN SUPPORT



(57) Abstract: A chuck assembly, an assembly for an earth-boring drill assembly, and a method of manufacturing a chuck assembly. In the assembly, a first portion of the chuck bore may have a minimum inner diameter greater than the chuck spline maximum inner diameter. A support ring recess may be defined in the bore axially between the chuck splines and the first end. A support ring may be positionable in the support ring recess, and the support ring, when positioned in the support ring recess, may have a support ring inner diameter less than the minimum inner diameter of the first portion of the bore. The drive pin may be positionable circumferentially between one of the chuck splines and an associated one of the bit splines and have an axial end surface at least partially engageable with the support ring to limit axial movement of the drive pin toward the first end.



INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. E21B17/046
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 919 221 A (PASCALE JACK H [US]) 24 April 1990 (1990-04-24) column 4, line 7 - column 5, line 45 figures 2,4,8,9,11 -----	1-22

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Further documents are listed in the continuation of Box C.

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See patent family annex.

* Special categories of cited documents :

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4919221	A	24-04-1990	NONE
