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(54) **Apparatus and methods for drilling a wellbore using casing**

(57) Apparatus and methods for drilling with casing. In an embodiment, methods and apparatus for deflecting casing using a diverter apparatus are disclosed. In another embodiment, the apparatus comprises a motor operating system disposed in a motor system housing, a shaft operatively connected to the motor operating system, the shaft having a passageway, and a divert assembly disposed to direct fluid flow selectively to the motor operating system and the passageway in the shaft. In another aspect, methods and apparatus for directionally drilling a casing into the formation are disclosed. Methods and apparatus for measuring the trajectory of a wellbore while directionally drilling a casing into the formation are also described.

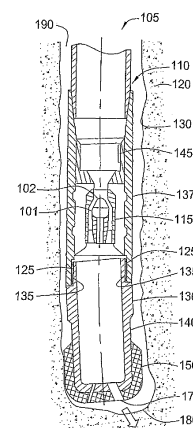


FIG. 14



## EUROPEAN SEARCH REPORT

Application Number  
EP 10 18 1236

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| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                          |                                                     |                                                |
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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 10 18 1236

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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