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Drilling apparatus.

Title (de)  
Bohrapparat.

Title (fr)  
Machine à forer.

Publication  
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Application  
**EP 83300939 A 19830223**

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Abstract (en)  
The invention provides a drill pipe rotary drive mechanism for an earth drilling apparatus comprising a housing, a drive member mounted in the housing for rotation therein about a rotary axis and having an axial bore opening at each end to the exterior of the housing, and a drive mechanism in the housing for rotatably driving the drive member. A drive coupling tool is adapted to be readily removably mounted in the drive member so that the drive mechanism can be used for rotatably driving different types of earth drilling tools, the coupling tool having a tubular body portion telescopically removably mounted in the axial bore of the drive member, the body portion having an axial opening extending therethrough for reception of a portion of the length of the drill pipe, a flange at one end of the body portion for abutting engagement with one end of the drive member for axially locating the coupling tool in the drive member, the coupling tool being adapted to be non-rotatably coupled to a drilling tool and to the drive member. The invention also provides a dual-wall drill pipe section comprising an outer pipe member having a box end formed with an internal thread and a pin end formed with an external thread for engagement with the box end of another outer pipe member, the bore of one of the ends of the outer pipe member is formed with a shoulder and a circumferential, inwardly facing groove axially spaced from the shoulder, an inner pipe member concentrically disposed within the outer pipe member so as to define an annular passage between the inner and outer pipe members, spacer members connected to each end of the inner pipe member and disposed in the annular passage for maintaining concentricity between the inner and outer pipe members, the spacer members at one end of the inner pipe being formed with a shoulder for abutting engagement with the shoulder of the outer pipe member so as to axially locate and support the inner pipe member within the outer pipe member, and at least one spring member connected to the inner pipe member and having a portion engageable with the groove of the outer pipe member for resiliently and frictionally retaining the inner pipe member within the outer pipe member during drilling, storage and handling of an assembled pipe section.

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