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Galle

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[54] NON-ORIENTING MULTIPLE BORE HUB

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[58] Field of Search 29/237, 282, 464, 29/469; 285/123.1, 123.15, 124.1, 124.2, 124.3, 124.5

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[57] ABSTRACT

A connector for a dual subsea flowline simultaneously connects a primary pipe and an offset auxiliary pipe carried alongside of the primary pipe. The connector has mating hub members, each having a face, a primary bore and an auxiliary passage. The auxiliary passages intersect annular concentric grooves formed in the faces. Inner and outer auxiliary seals seal the grooves, and a primary seal seals the junction of the primary bores. The seals are linked together with a seal retainer which is installed with a remote operated vehicle in one of the hubs prior to make-up.

19 Claims, 4 Drawing Sheets

