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- (71) **Applicant:** VETCO GRAY INC. [US/US]; 4424 West Sam Houston Pkwy North, Suite 100, Houston, TX 77041 (US).
- (72) **Inventors:** MANSUKH, Mayur; 4424 West Sam Houston Parkway North, Suite 100, Houston, TX 77041 (US). GADRE, Aniruddha, D; 4424 West Sam Houston Parkway North, Suite 100, Houston, TX 77041 (US). BEN-SON, Daniel, Caleb; 4424 West Sam Houston Parkway North, Suite 100, Houston, TX 77041 (US). FORD, Dav-

id, Lawrence; 4424 West Sam Houston Parkway North, Suite 100, Houston, TX 77041 (US).

- (74) **Agents:** DOMBROWSKI, Joanna, M. et al.; General Electric Company, Global Patent Operation, 3135 Easton Turnpike, Fairfield, CT 06828 (US).

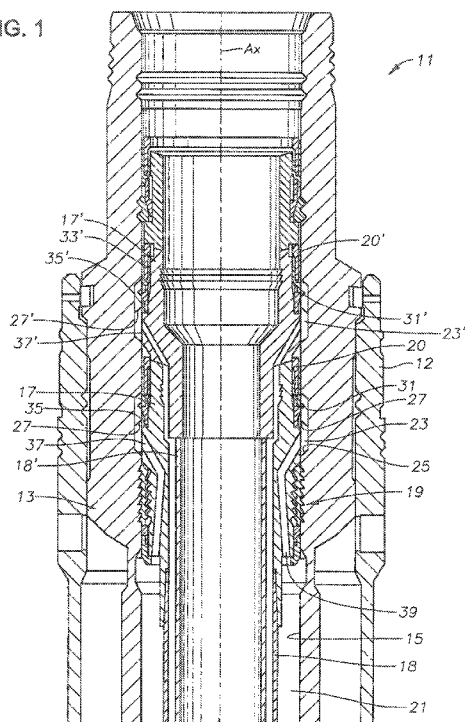
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- (54) **Title:** FLOW-BY HOLES WITH GALLERY AND CHANNEL ARRANGEMENT ON WELLHEAD AND TUBULAR HANGER

FIG. 1



(57) **Abstract:** A wellhead assembly includes a tubular wellhead housing having a bore and an annular gallery slot. The annular gallery slot is defined by an enlarged inner diameter of the bore. A tubular hanger is selectively landed in the bore of the wellhead housing, defining an annular cavity between the bore and an outer diameter of the tubular hanger. The tubular hanger is supported by the wellhead housing with a hanger support located in the annular cavity. A flow-by passage is in fluid communication with the annular cavity at locations above and below the hanger support. The flow-by passage intersects with the gallery slot and intersects an outer radial surface of the tubular hanger.



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