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(71) Applicant *(for all designated States except US)*: **BAKER HUGHES INCORPORATED** [US/US]; P.O. Box 4740, Houston, TX 77210-4740 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **BILEN, Juan, Miguel** [AR/US]; 27 Willow Point Place, The Woodlands, TX 77382 (US).

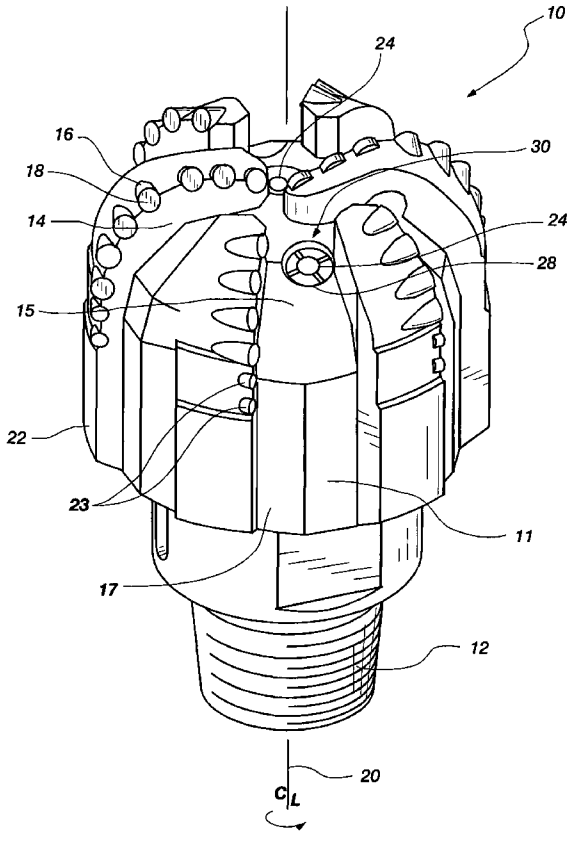
(74) Agents: **WELBORN, Brian, S.** et al.; Baker Hughes Incorporated, P.O. Box 4740, Houston, TX 77210-4740 (US).

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(54) Title: DRILL BIT NOZZLE ASSEMBLY, INSERT ASSEMBLY INCLUDING SAME AND METHOD OF MANUFACTURING OR RETROFITTING A STEEL BODY BIT FOR USE WITH THE INSERT ASSEMBLY



(57) Abstract: A steel body bit nozzle assembly (30) comprising a bit body (14) having a port (28) therein with a sleeve (32) disposed adjacent a nozzle in the port and an annular seal (38) disposed between an outer wall each of the sleeve and the nozzle (34) and a wall of the port, each seal (36) (38) being received and compressed in an annular seal groove (40, 42) located between its respective component and the bit body. A nozzle pocket insert assembly and a method of manufacturing or retrofitting a steel body bit for use of the nozzle pocket insert assembly are also disclosed.

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