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(54) Title: ROCK BIT HAVING A RADIALLY SELF-ALIGNING METAL FACED SEAL

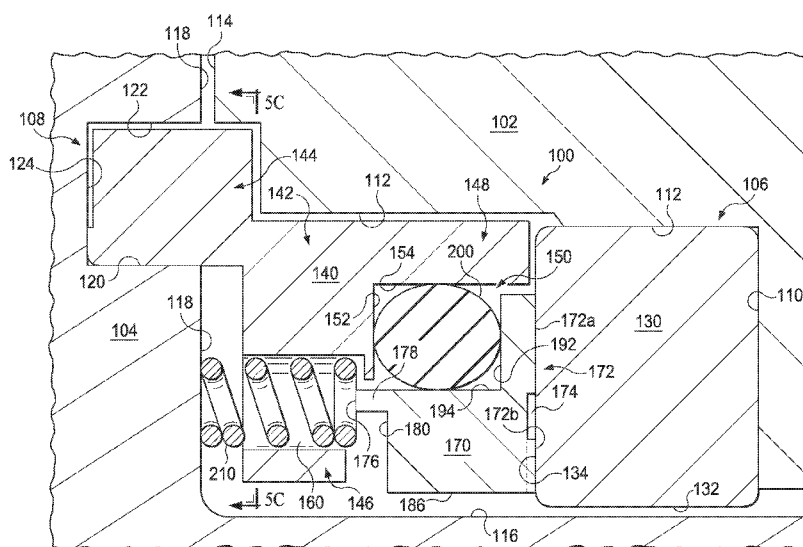


FIG. 5A

- (57) Abstract: A sealing system includes a first gland in a cone and a second gland in a shaft region. A first ring is mounted in the first gland, a second ring is mounted in the second gland and a third ring is positioned between the first and second rings. The first and third rings present a pair of metal seal faces. A third ring is mounted to the second ring through a set of mounting pins which permit axial movement of the third ring. A biasing spring is mounting in the second ring and configured to exert an axial force against the third ring so as to keep the metal seal faces in sealing contact. A third gland is formed between the second and third rings, with an o-ring sealing member installed within the third gland and compressed in a sealing relationship between the second and third rings.