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(54) **RADIAL SHAFT SEAL**

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CPC ***F16J 15/32*** (2013.01)

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CPC F16J 15/16; F16J 15/32; F16J 15/3204; F16J 15/322; F16J 15/3268; F16L 17/035
See application file for complete search history.

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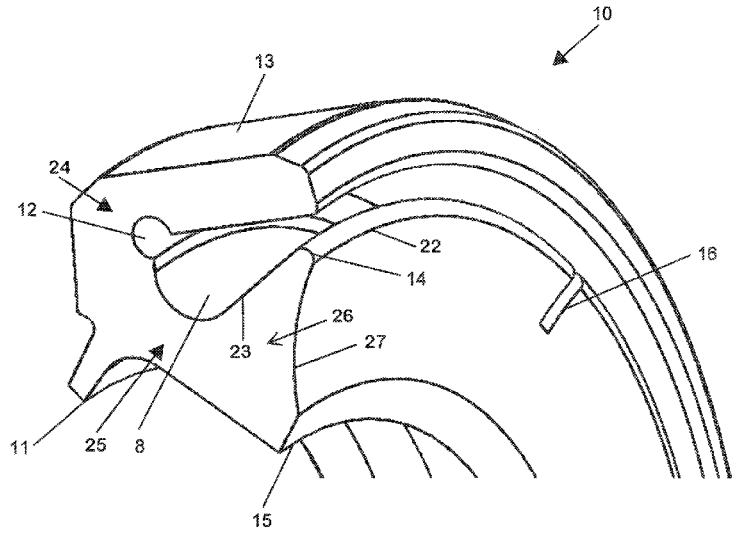
(57) **ABSTRACT**

Radial shaft seal includes an outer diameter member, a primary sealing lip, and a lip energizer. The primary sealing lip is spaced radially from the outer diameter member. The lip energizer is positioned radially between the outer diameter member and the primary sealing lip. The lip energizer moves to an engaging position with the outer diameter member forming a section of material between the outer diameter member and the primary sealing lip. The outer diameter member, the primary sealing lip, and the lip energizer can be formed from a single piece of material, and in one embodiment, an elastomer.

8 Claims, 5 Drawing Sheets