

OIL-IMPREGNATED BEARING



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ABSTRACT

An oil-impregnated bearing for providing stable rotational performance for a shaft to
5 carry a greater work load and reduce friction force between the shaft and the bearing.
The invention includes extended troughs formed on the peripheral surface of a center
opening of the oil-impregnated bearing to alter the shape of the center opening to
become a geometric polygon such that the contact area between the center opening and
the shaft may be reduced, thereby decreasing friction and operation noise. The extended
10 troughs may contain a solid state lubrication agent to prevent the temperature of the
bearing from rising during operation.

[Figure 2A]