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(71) Applicant (for all designated States except US): **VAREL INTERNATIONAL, IND., L.P.** [US/US]; 1434 Patton Place, Suite 106, Carrollton, TX 75007 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LU, Xiaobin** [CN/US]; 449 Phillips Drive, Coppell, TX 75019 (US).

(74) Agent: **SZUWALSKI, Andre, M.**; Gardere Wynne Sewell LLP, 1601 Elm Street, Suite 3000, Dallas, TX 75201-4761 (US).

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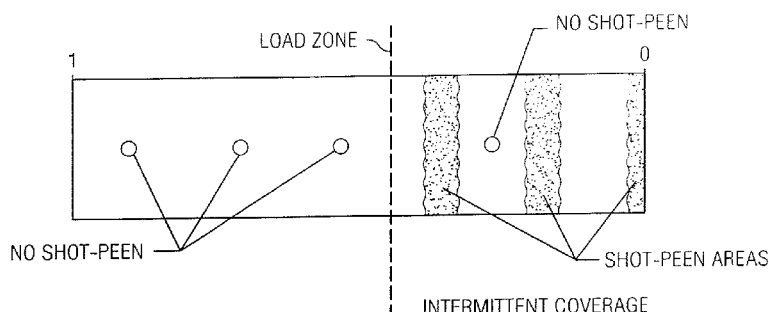


FIG. 19

(57) Abstract: Surface texturing is employed to modify the topography of one or more surfaces (radial or cylindrical) of the bearing system for a roller cone rock bit. The surface texturing results in a dimpled surface which retains additional lubricant helpful in reducing friction in the boundary and mixed lubrication regimes. Shot peening is disclosed as one method for texturing the desired surface.



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