

(12) **United States Patent**
Smith et al.

(10) **Patent No.:** **US 9,206,900 B2**
(45) **Date of Patent:** **Dec. 8, 2015**

(54) **ASSEMBLY FOR SEALING A SLIDING INTERFACE**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 802 days.

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(21) Appl. No.: **13/312,837**

Search Report for Application No. PCT/US2012/023280, dated May 15, 2012.

(22) Filed: **Dec. 6, 2011**

(65) **Prior Publication Data**

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US 2012/0211942 A1 Aug. 23, 2012

Related U.S. Application Data

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(60) Provisional application No. 61/444,653, filed on Feb. 18, 2011.

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(51) **Int. Cl.**
F16J 9/22 (2006.01)
F16J 9/00 (2006.01)

(57) **ABSTRACT**

An assembly is disclosed for sealing the sliding interface between two objects capable of sliding or moving with respect to one another, but where the sliding interface must provide a substantial seal against pressure loss therethrough, such as where an assembly seals the sliding interface between a piston and a cylinder or between a rod and a bushing. The sliding interface includes a seal located in a seal groove, wherein the seal ring height is less than the height of the seal groove and the inner diameter of the seal is greater than the base of the groove. In one aspect, the difference in height is set by a shim and a piece of material of the same height as that of the seal ring.

(52) **U.S. Cl.**
CPC **F16J 9/22** (2013.01)

(58) **Field of Classification Search**
USPC 277/447, 448, 422
See application file for complete search history.

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15 Claims, 5 Drawing Sheets

