

Title (en)

DUAL-METAL MOLECULARLY BONDED PLUG ASSEMBLY AND METHOD OF FABRICATION THEREOF

Title (de)

ABSPERRVENTIL MIT AUS ZWEI METALLEN GEGOSSENEM ABSPERRORGAN

Title (fr)

ENSEMBLE DE TOURNANT AUX DEUX METAUX LIES MOLECULAIREMENT POUR ROBINETS A TOURNANT NON LUBRIFIES DU TYPE A DOUBLE BLOC ET PURGEUR ET SON PROCEDE DE FABRICATION

Publication

EP 1303372 A2 20030423 (EN)

Application

EP 01954945 A 20010724

Priority

- US 0123363 W 20010724
- US 62669300 A 20000727

Abstract (en)

[origin: WO0210620A2] A plug assembly for plug valves is made of two distinct metals, one for the plug and another for the stem or trunnion. In a preferred embodiment, the plug is made of ductile iron and the stem or trunnion is made of high grade stainless steel. The two metals are molecularly bonded at their respective surfaces when molten iron is cast into a plug mold containing the steel stem. A mechanical bond is also provided in the form of a iron pin through an aperture in the stainless steel stem.

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