

Title (en)

RADIAL LIP SEAL AND METHOD OF MAKING IT.

Title (de)

RADIALLIPPENDICHTUNG UND VERFAHREN ZU DEREN HERSTELLUNG.

Title (fr)

JOINT A LEVRE RADIALE ET SON PROCEDE DE FABRICATION.

Publication

EP 0022778 A4 19810327 (EN)

Application

EP 79901054 A 19790124

Priority

US 7900035 W 19790124

Abstract (en)

[origin: WO8001598A1] This invention relates to the field of methods for making oil seals. A method of forming an elastomeric radial lip seal (Figs. 3-5) with a bonded solid, deformable, and non-moldable wear insert having a hydrodynamic surface positioned at the sealing lip through compression molding. Such method includes employing a preheated mold core (10) forming a portion of a mold cavity with the core having assembled thereto a negatively imprinted surface (23) having a hydrodynamic fluted configuration at a preselected location. An annular deformable and non-moldable solid material (26) is positioned on the lower core (10) of the mold situated so as to be in close proximity to the preselected location having the fluted imprinted surface. An annular, uncured elastomeric material (27) is positioned adjacent to the deformable and non-moldable annulus (26). The elastomer, deformable and non-moldable annuli (26, 27), and a seal case member (20) are joined by heating and compressing under pressure which is sufficient in magnitude to force portions of the deformable and non-moldable annulus (26) onto the negatively imprint fluted surface (23) by hydrostatic pressure generated by the elastomer being cured, such that a positive imprint is formed on the deformable non-moldable annulus (26) which is generally complementary to the negatively imprinted surface on the seal mold.

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- FR 1508575 A 19680105 - CHROMEX
- FR 2373003 A1 19780630 - GARLOCK INC [US]

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