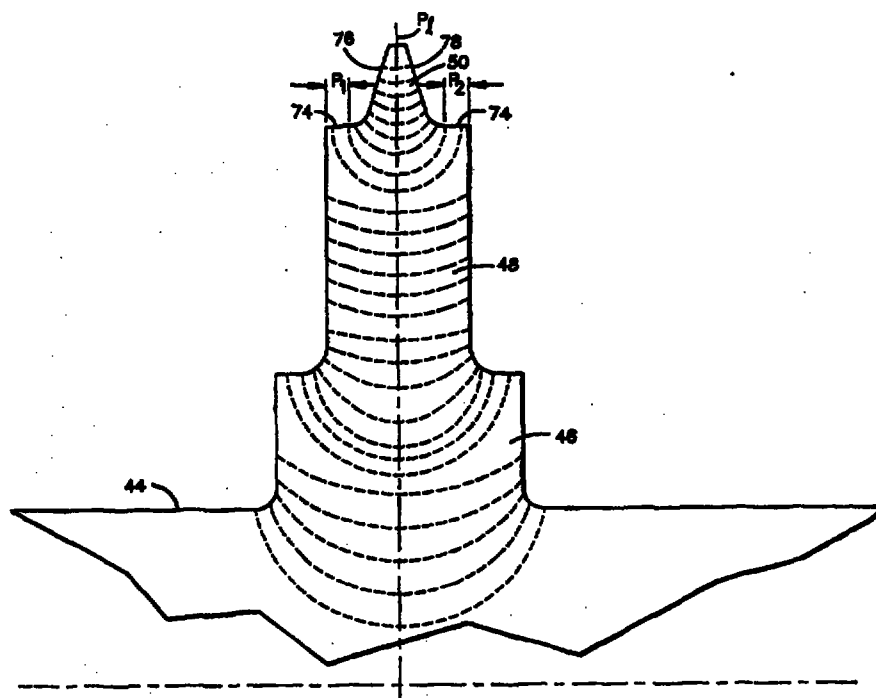




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : F01D 11/02	A1	(11) International Publication Number: WO 96/06267 (43) International Publication Date: 29 February 1996 (29.02.96)
(21) International Application Number: PCT/US95/10474 (22) International Filing Date: 17 August 1995 (17.08.95) (30) Priority Data: 08/295,193 24 August 1994 (24.08.94) US (71) Applicant: UNITED TECHNOLOGIES CORPORATION [US/US]; United Technologies Building, Hartford, CT 06101 (US). (72) Inventors: PETERS, Gary, P.; 337 East Middle Turnpike, Manchester, CT 06040 (US). STIRT, Robert, Gerard, Johannus; 835 Main Street, South Glastonbury, CT 06073 (US). (74) Agent: FLEISCHHAUER, Gene, D.; United Technologies Corporation, Pratt & Whitney, 400 Main Street, East Hartford, CT 06108 (US).	(81) Designated States: CN, JP, SG, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report. 86 9700749-6. Zemp's copy	

(54) Title: ROTATABLE SEAL ELEMENT FOR A ROTARY MACHINE



(57) Abstract

A rotatable seal element (38) is formed of at least two circumferentially continuous rings (48, 50). The rings have decreased thickness (T_2 , T_3) in the outward direction. Various construction details are developed which effect the level of cyclic fatigue life. In one particular embodiment, the seal element has a flat surface (74) extending inwardly from the sides at the interface between the rings.