

Title (en)

WEAR-RESISTING MEANS FOR SCROLL-TYPE FLUID-DISPLACEMENT APPARATUSES

Publication

EP 0075053 B1 19861217 (EN)

Application

EP 81304364 A 19810922

Priority

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Abstract (en)

[origin: EP0075053A1] A scroll type fluid displacement apparatus having a pair of scroll members (28, 30) each comprising an end plate (281, 301) and a spiral wrap (282, 302) extending from one side of the end plate. The spiral wraps interfit at an angular and radial offset to make a plurality of line contacts to define at least one pair of sealed-off fluid pockets. At least one of the scroll members (28) is provided with an anti-wear plate (40) at its end surface facing the other scroll member. The anti-wear plate is an insolute plate that covers those areas of the end surface of the end plate where the spiral wrap of the other scroll member makes contact during the orbital motion of the orbiting scroll member. An elastic plate can also be used between the anti-wear plate and the end surface of the end plate to give axial preload to the end surface of the spiral wrap of the other scroll member. The anti-wear plate prevents excessive wear while ensuring axial sealing. Therefore, the axial sealing of the fluid pockets is secured and wear of the scroll member is minimized.

IPC 1-7

F01C 1/02; **F01C 21/08**; **F01C 21/10**

IPC 8 full level

F01C 1/02 (2006.01); **F01C 21/10** (2006.01); **F04C 27/00** (2006.01)

CPC (source: EP)

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Citation (examination)

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Cited by

DE3442619A1; FR2574869A1; US6068458A; EP0855510A3; JPH0968175A; US5775888A; JP2023143657A; WO0006906A1; EP0122722B1

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