

Title (en)

Bearing for ambivalent centrifugal pump.

Title (de)

Lager für ambivalente Zentrifugalpumpe.

Title (fr)

Palier pour pompe centrifuge ambivalente.

Publication

EP 0009449 A1 19800402 (FR)

Application

EP 79400651 A 19790918

Priority

FR 7827164 A 19780922

Abstract (en)

1. Multiple cell centrifugal pump comprising within a pump casing formed by a single block at least two stackable pump elements which are driven by an electric motor cooled by the circulation of the fluid fed by the pump, in which the stackable pump elements are mounted at the ends of the shaft driven by the motor on either side of the said motor, and in which the pump casing includes in the motor section at least one conduit (14) communicating the front cell (13') to the rear cell (13) of the pump and being provided for the circulation of the supplied fluid having the function to cool the motor and to lubricate the bearings (D) thereof, and in which each of the bearings (D) of the drive motor includes at least one shaft bushing (8), one bearing shell (10) and a stop member (29), characterized in that - the shaft bushing (8) is driven by a position shaft clutch, - the bearing shell (10) cooperates with the stop member (29) which is carried by a stop retainer (9), and - the stop member (29) may be rotatably driven and is provided with means for self-alignment.

Abstract (fr)

La pompe centrifuge (1), du type multicellulaire, comporte des éléments de pompe empilables montés aux deux extrémités de l'arbre (6) de rotation prolongé du moteur unique. Au moins un conduit (14) creusé dans le corps (2) met en relation la cavité avant (13') de la pompe avec la cavité arrière (13); il sert à la circulation du fluide pompé utilisé pour refroidir le moteur à rotor noyé. Les paliers du moteur sont lubrifiés par le même liquide pompé. Ils comportent chacun une butée (29) ayant des propriétés auto-alignantes. Robuste et d'un prix de revient économique, la pompe offre le grand avantage de fonctionner dans l'air et dans l'eau. Applications domestiques ou artisanales.

IPC 1-7

F04D 1/06; F04D 29/58

IPC 8 full level

F04D 1/06 (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP)

F04D 1/06 (2013.01); **F04D 13/06** (2013.01); **F04D 29/5806** (2013.01)

Citation (search report)

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