

Title (en)
MIXING DEVICE

Publication
EP 0266732 B1 19910403 (DE)

Application
EP 87116122 A 19871103

Priority
DE 3637863 A 19861106

Abstract (en)
[origin: EP0266732A1] The stirrer device (1) for use in stirred vessels (18), provided for difficult conditions of use, such as highly corrosive liquids, vacuum operation and the like, has a housing (2) which is guided tightly in the neck of the stirred vessel (18) via a conical housing part (3). The stirrer shaft (4) is mounted, secure against tilting, in the housing (2) via rolling-contact bearings (11, 12). For sealing, lip seals (14) are provided, whose lips bear against a hardened and smoothed running surface (15) on the stirrer shaft (4). The lip seals are preferably guided peripherally in a housing bore and braced against the rolling-contact bearing (12) via spacer discs (16) and a bracing disc (17) on the outside. <IMAGE>

IPC 1-7
B01F 15/00

IPC 8 full level
B01F 15/00 (2006.01)

CPC (source: EP)
B01F 27/11251 (2022.01); **B01F 27/211** (2022.01); **B01F 27/2121** (2022.01); **B01F 27/90** (2022.01); **B01F 35/4111** (2022.01); **B01F 2035/3511** (2022.01); **B01F 2035/352** (2022.01); **B01F 2101/23** (2022.01)

Citation (examination)
• H. Roloff, W Marek, Maschinenelemente, Vieweg, Braunschweig 1974, S. 363-368
• W. Beitz, K.H.Küttner, Dubbel, Springer-Verlag, 1987, Seite G82-G83

Cited by
US5326167A; CN108421443A; CN108014671A; DE102007060608B4; DE102007060608A1; EP1640645A1; CN1327150C; EP0480694A1; EP1201975A3; WO2011100962A1; US7055825B2; US7090222B2; EP0728839B1

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0266732 A1 19880511; **EP 0266732 B1 19910403**; AT E62150 T1 19910415; DE 3637863 A1 19880519; DE 3769079 D1 19910508; ES 2021679 B3 19911116; GR 3001992 T3 19921123

DOCDB simple family (application)
EP 87116122 A 19871103; AT 87116122 T 19871103; DE 3637863 A 19861106; DE 3769079 T 19871103; ES 87116122 T 19871103; GR 910400669 T 19910522