Title (en)

Drive device for an impeller for sterile applications.

Title (de)

Antriebsvorrichtung eines Rührers für sterile Anwendungen.

Title (fr)

Dispositif d'entraînement d'un agitateur pour applications stériles.

Publication

EP 0399971 A1 19901128 (EN)

Application

EP 90850179 A 19900517

Priority

SE 8901876 A 19890526

Abstract (en)

A drive device for an impeller (17) which is rotatably mounted within a vessel (11) for stirring and mixing sterile fluids. The drive device is rotatably mounted at an inwardly-directed cylindrical recess (15) in a bottom wall (16) of the vessel, the recess (15) being intended to receive the drive device. The impeller (17) includes a peripheral section (21) which surrounds the cylindrical recess (15). A stator (24) is fixedly secured in the recess (15), which stator includes a magnetisable iron core (25) and induction coils connectable to a 3-phase alternating current source. Inductively magnetisable elements 23 are located in the peripheral section (21) of the impeller (17) for generating a torque when the stator (24) is supplied with a 3-phase alternating current so that the impeller rotates in a predetermined direction.

IPC 1-7

B01F 13/08

IPC 8 full level

B01F 13/08 (2006.01); **B01F 15/00** (2006.01)

CPC (source: EP)

B01F 33/4535 (2022.01); **B01F 35/4112** (2022.01)

Citation (search report)

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- [A] US 2810556 A 19571022 - ZOZULIN IGOR V
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Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0399971 A1 19901128; **EP 0399971 B1 19940803**; **EP 0399971 B2 19981223**; AT E109375 T1 19940815; DE 69011213 D1 19940908; DE 69011213 T2 19950223; DE 69011213 T3 19990819; FI 902470 A0 19900518; NO 169756 B 19920427; NO 169756 C 19920805; NO 902320 D0 19900525; NO 902320 L 19901127; SE 462834 B 19900910; SE 8901876 D0 19890526

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EP 90850179 A 19900517; AT 90850179 T 19900517; DE 69011213 T 19900517; FI 902470 A 19900518; NO 902320 A 19900525; SE 8901876 A 19890526