

Title (en)
PERISTALTIC PUMPS

Title (de)
PERISTALTISCHE PUMPEN

Title (fr)
POMPES PÉRISTALTIQUES

Publication
EP 4267857 A1 20231101 (EN)

Application
EP 21843960 A 20211221

Priority
• GB 202020577 A 20201224
• EP 2021087135 W 20211221

Abstract (en)
[origin: WO2022136462A1] A peristaltic pump (10) comprises a drivable rotor (14), having at least one pressing member (15), and a housing (11) comprising a cylindrical stator (12) in which the rotor (14) is rotatable. Flexible tubing (22), having an inlet side (24) and an outlet side (26), extends circumferentially around the cylindrical stator (12) against an inner wall (12a). The peristaltic pump (10) includes a radially deformable ring (28) positioned between the rotor (14) and the circumferentially extending flexible tubing (22). The ring (28) is deformed by the pressing member (15) upon rotation of the rotor (14) and this compresses the flexible tubing (22) against the inner wall (12a) of the cylindrical stator (12) to convey liquid along the flexible tubing (22). The radially deformable ring (28) includes a ring anchor (30) which prevents rotation of the radially deformable ring (28) during rotation of the rotor (14). The ring anchor 30 is engaged with the housing (11) to secure the ring anchor (30) to the housing (11) whilst allowing reciprocal movement of the ring anchor (30) in a radial direction.

IPC 8 full level
F04B 43/00 (2006.01); **F04B 43/12** (2006.01)

CPC (source: EP GB US)
F04B 43/0009 (2013.01 - EP); **F04B 43/12** (2013.01 - EP); **F04B 43/1223** (2013.01 - US); **F04B 43/123** (2013.01 - EP); **F04B 43/1238** (2013.01 - GB US); **F04B 43/1253** (2013.01 - GB); **F04B 43/1276** (2013.01 - GB)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022136462 A1 20220630; CA 3203346 A1 20220630; EP 4267857 A1 20231101; GB 202020577 D0 20210210; GB 2602343 A 20220629; GB 2602343 B 20230222; US 2024068463 A1 20240229

DOCDB simple family (application)
EP 2021087135 W 20211221; CA 3203346 A 20211221; EP 21843960 A 20211221; GB 202020577 A 20201224; US 202118269303 A 20211221