

Title (en)
CONTINUOUS SAMPLE DELIVERY PERISTALTIC PUMP

Title (de)
PERISTALTISCHE PUMPE FÜR KONTINUIERLICHE PROBENABGABE

Title (fr)
POMPE PÉRISTALTIQUE DE DÉLIVRANCE D'ÉCHANTILLONS CONTINUE

Publication
EP 3337977 A1 20180627 (EN)

Application
EP 16839908 A 20160819

Priority

- US 201562208465 P 20150821
- US 2016047877 W 20160819

Abstract (en)
[origin: CN107923380A] A method and apparatus for pumping fluid through tubing are provided. The method includes orbiting first rollers around the periphery of a first disk at a first tangential speed in a first angular sector and a slower, second tangential speed in a second angular sector, orbiting second rollers around the periphery of a second disk at the second tangential speed, and increasing the pressure of fluid in tubing between one first roller and one second roller by causing the one first roller to fully compress the tubing at the first tangential speed and simultaneously causing the one second roller to fully compress the tubing at the second tangential speed. The apparatus includes a first disk with a recess in its periphery, the first angular sector with a nominal first radius, and a second angular sector with a nominal second radius; and a second disk with the nominal first radius and a recess in its periphery.

IPC 8 full level
F04B 43/08 (2006.01); **F04B 43/12** (2006.01); **F04B 45/06** (2006.01)

CPC (source: EP US)
F04B 43/0072 (2013.01 - EP US); **F04B 43/1215** (2013.01 - EP); **F04B 43/1253** (2013.01 - EP); **F04B 43/1261** (2013.01 - EP US);
F04B 43/1276 (2013.01 - EP)

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

DOCDB simple family (publication)
CN 107923380 A 20180417; CN 107923380 B 20200207; EP 3337977 A1 20180627; EP 3337977 A4 20190102; EP 3337977 B1 20200129

DOCDB simple family (application)
CN 201680049919 A 20160819; EP 16839908 A 20160819