

Title (en)
Peristaltic pump

Title (de)
Peristaltische Pumpe

Title (fr)
Pompe péristaltique

Publication
EP 0872252 B1 20031022 (EN)

Application
EP 97202451 A 19970807

Priority
IL 12069797 A 19970418

Abstract (en)
[origin: EP0872252A1] A peristaltic pump for propelling liquid through a flexible tube segment. The pump has a cam shaft which carries a plurality of cams each having a driving surface. The driving surfaces of adjacent cams are spaced at an angle to each other about the cam shaft. The pump also has a plurality of cam followers which are each reciprocal in a common direction perpendicular to the axis of the cam shaft. Each cam follower has a cam surface riding on the driving surface of a cam and a tube engaging surface for engaging the flexible tube segment. At least one of the cam followers is a restriction cam follower of which the tube engaging surface engages the flexible tube segment for a longer period than that of the other cam followers. The pump also has a motor for rotating the cam shaft whereby the cams cause the cam followers to each engage and occlude the flexible tube segment to form a propagating depression wave in the flexible tube segment for propelling liquid. The restriction cam followers prevent back flow of the liquid. <IMAGE>

IPC 1-7
A61M 5/142; **F04B 43/08**

IPC 8 full level
F04B 43/08 (2006.01); **F04B 49/10** (2006.01)

CPC (source: EP)
F04B 43/088 (2013.01); **F04B 49/106** (2013.01); **F04B 2201/1201** (2013.01); **F04B 2201/12041** (2013.01); **F04B 2205/503** (2013.01); **F04B 2207/01** (2013.01)

Citation (examination)
EP 0858812 A2 19980819 - MICREL MICROELECTRONIC APPLIC [GR]

Cited by
FR2908165A1; KR100561243B1; US6139531A; US8133035B2; WO2008055794A1; WO9940321A1

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