

Title (en)  
Peristaltic pump.

Title (de)  
Peristaltikpumpe.

Title (fr)  
Pompe péristaltique.

Publication  
**EP 0164020 A1 19851211 (EN)**

Application  
**EP 85106263 A 19850522**

Priority  
US 61433184 A 19840525

Abstract (en)

To increase precision of flow in multiple channels of a peristaltic pump, a plurality of spring biased cassettes (18A, 18B, 18C) are mounted to cooperate with a spool (38) having a plurality of elongated rollers (36A-36C) which orbit about its center so that each elongated roller in succession compresses a plurality of flexible tubes (20A-20C) in the channels against corresponding cam surfaces (108, 110) in the cassettes (18A-18C) spaced from the rollers (36A-36C) by surfaces (107) of the cassettes which are in contact with the rollers (36A-C). In each cassette (18A-C), the cam (108, 110) is mounted between side plates (52-54) against which the rollers (36A-36C) roll, which are spring biased against the rollers (36A-36C) and hinged at a center location to provide precision determined only by the precision of the cam (108, 110) to side plate edge dimension. The cam is shaped to reduce pulses during roller lift-off from the cam surface (108, 110) to provide for pulsefree flow.

IPC 1-7

**F04B 43/12**

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

CPC (source: EP)  
**F04B 43/1292** (2013.01)

Citation (search report)

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