

Title (en)  
DISPOSABLE INFUSION APPARATUS WITH PERISTALTIC PUMP

Publication  
**EP 0527868 A4 19930922 (EN)**

Application  
**EP 91909243 A 19910429**

Priority  
US 51877790 A 19900504

Abstract (en)  
[origin: WO9116933A1] A disposable infusion apparatus (10) includes proximal, distal and intermediate segments of IV tubing (14) connected via couplings (20, 26). The intermediate segment (34) has a length sufficient for operative engagement with a pumping member (32) of a peristaltic pump throughout a pumping stroke thereof. The intermediate segment (34) further has a maximum Durometer of seventy-five on the Shore A scale. The pumping member (32) includes a plurality of fingers (32a) mounted in side-by-side substantially parallel relationship for individual reciprocation. Motor driven cams (36) individually reciprocate respective ones of the fingers in a predetermined timed sequence so that when the linearly disposed intermediate segment (34) is squeezed by the fingers (32a), intravenous fluid in the tubing will be pumped therethrough. The disposable apparatus (10) further includes a door (40) connected to opposite ends of the intermediate segment (34) and which is releasably loadable in a case (12) to place the intermediate segment into operative engagement with the pumping member.

IPC 1-7  
**A61M 1/00**; **F04B 43/08**

IPC 8 full level  
**A61M 5/142** (2006.01); **F04B 43/08** (2006.01); **A61M 39/28** (2006.01)

CPC (source: EP)  
**A61M 5/142** (2013.01); **A61M 5/14228** (2013.01); **F04B 43/082** (2013.01); **A61M 39/281** (2013.01)

Citation (search report)  
• [A] US 4617014 A 19861014 - CANNON RAYMOND E [US], et al  
• [AP] EP 0411543 A2 19910206 - TERUMO CORP [JP]  
• See references of WO 9116933A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**WO 9116933 A1 19911114**; CA 2080370 A1 19911105; CA 2080370 C 19980714; EP 0527868 A1 19930224; EP 0527868 A4 19930922; JP H05507007 A 19931014

DOCDB simple family (application)  
**US 9102930 W 19910429**; CA 2080370 A 19910429; EP 91909243 A 19910429; JP 50869391 A 19910429