Title (en)
   URETHRAL WARMING SYSTEM

Title (de)
   HARNRÖHREN-WÄRMSYSTEM

Title (fr)
   SYSTEME DE CHAUFFAGE URETRAL

Publication
   EP 1615603 A1 20060118 (EN)

Application
   EP 04728623 A 20040421

Priority
   • IL 2004000341 W 20040421
   • US 46512803 P 20030424

Abstract (en)
   [origin: WO2004093756A1] Apparatus for warming a catheter (18), consisting of a pump unit (14), that includes a non-disposable pump drive
   (17) and a disposable pump (15), removably couplable to the pump drive, having interior and exterior volumes (40, 41) between which liquid is
   transferred uni-directionally on operation of the pump drive, and a ventilation unit (20) that allows gas passage between the pump and surroundings
   of the pump while preventing passage of the liquid. The apparatus further includes a heating unit (16), having a non-disposable section (21)
   including a heating element (80) and a temperature sensor (90), and a disposable heated section (19), removably couplable to the non-disposable
   section, configured to transfer the liquid between an inlet (61) and an outlet (59), and to maintain the liquid in good thermal contact with the heating
   element and the temperature sensor when coupled to the non-disposable section. The disposable tubing, pump, heated section, and the catheter,
   form a closed circuit for the liquid.

IPC 1-7
   A61F 7/00

IPC 8 full level
   A61F 7/12 (2006.01); A61B 17/00 (2006.01); A61B 18/00 (2006.01)

CPC (source: EP)
   A61F 7/12 (2013.01); A61B 2017/00084 (2013.01); A61B 2017/00274 (2013.01); A61B 2018/00041 (2013.01); A61B 2018/00547 (2013.01)

Citation (search report)
   See references of WO 2004093756A1

Designated contracting state (EPC)
   AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
   WO 2004093756 A1 20041104; EP 1615603 A1 20060118; JP 2006524099 A 20061026

DOCDB simple family (application)
   IL 2004000341 W 20040421; EP 04728623 A 20040421; JP 2006507613 A 20040421