

Title (en)

MEDICAL APPARATUS FOR ADMINISTERING OR EVACUATING A FLUID TO OR FROM A HUMAN OR ANIMAL BODY OR FOR RECEIVING SUCH A FLUID

Title (de)

MEDIZINISCHES GERÄT ZUM ZU- ODER ABFÜHREN EINER FLÜSSIGKEIT ZU ODER VON EINEM MENSCHLICHEN ODER TIERISCHEN KÖRPER ODER ZUM AUFNEHMEN EINER SOLCHEN FLÜSSIGKEIT

Title (fr)

APPAREIL MEDICAL POUR L'ADMINISTRATION OU L'EVACUATION D'UN FLUIDE DANS UN/ OU EN PROVENANCE D'UN/ CORPS HUMAIN OU ANIMAL OU POUR LA RECEPTION D'UN TEL FLUIDE

Publication

**EP 1429836 A1 20040623 (DE)**

Application

**EP 02767496 A 20020924**

Priority

- DE 10147597 A 20010926
- EP 0210680 W 20020924

Abstract (en)

[origin: WO03028798A1] The invention relates to a medical apparatus for administering or evacuating a fluid to or from a human or animal body or for receiving said fluid, wherein the surface of the apparatus facing the fluid is structured in a knob-like manner by means of bumps whose measurements lie in the  $\mu\text{m}$  range.

IPC 1-7

**A61M 39/08**; **A61M 1/00**; **A61F 2/00**; **A61J 1/00**; **A61M 25/00**

IPC 8 full level

**A61J 1/00** (2006.01); **A61J 1/10** (2006.01); **A61J 1/14** (2006.01); **A61M 25/00** (2006.01); **A61M 39/00** (2006.01); **A61M 39/08** (2006.01)

CPC (source: EP US)

**A61M 25/0023** (2013.01 - EP US); **A61M 25/0043** (2013.01 - EP US); **A61M 39/08** (2013.01 - EP US); **A61J 1/1468** (2015.05 - EP US)

Citation (examination)

- US 3540959 A 19701117 - CONNOR JOHN HOUGHTON
- US 4955862 A 19900911 - SEPETKA IVAN [US]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**WO 03028798 A1 20030410**; DE 10147597 A1 20030417; DE 10147597 B4 20040715; EP 1429836 A1 20040623; JP 3110065 U 20050616; US 2005010169 A1 20050113

DOCDB simple family (application)

**EP 0210680 W 20020924**; DE 10147597 A 20010926; EP 02767496 A 20020924; JP 2003600031 U 20020924; US 49076904 A 20040325