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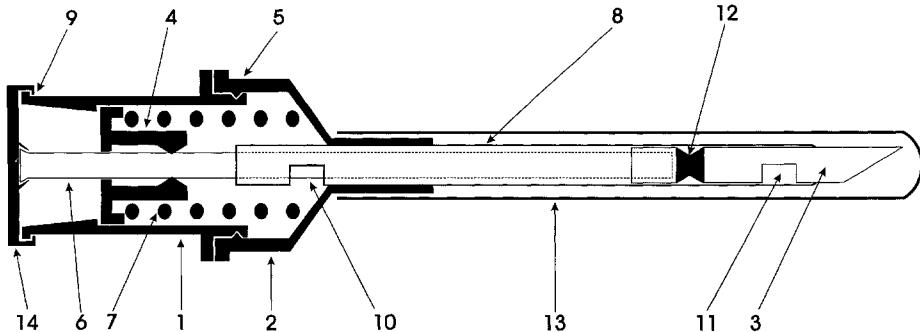
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[Continúa en la página siguiente]

(54) Title: FLOW REGULATING/AUTOVALVE INTRAVENOUS CATHETER

(54) Título: CATETER INTRAVENOSO AUTOVALVULA-REGULADOR DE FLUJO



(57) Abstract: The invention relates to a flexible tube intravenous catheter which is intended for use in infirmaries. The inventive catheter comprises two cylindrical chambers (1 and 2) which are inserted one inside the other and which can rotate a half-turn in relation to one another. According to the invention, the needle which punctures the vein (3) is very short and is sealed at the rear part thereof. Moreover, said needle is provided with a groove equal to that of the flexible tube (8), by means of which it is moved. At present, once the needle has punctured the vein, it is discarded. In this case, however, the needle remains inside the catheter housed in a clamp which can move and act as a flow regulator and autovalve; preventing the outflow of blood and regulating the passage of fluids with precision. When a serum is connected, the clamp moves forwards in order to open the valve and automatically closes same upon removal of said serum. The flow is regulated by rotating the two chambers in relation to one another. Given that no blood-contaminated needles are discarded, said catheter prevents accidents and infections.

(57) Resumen: Consiste en un catéter intravenoso de tubo flexible para uso en enfermería; formado por dos cámaras cilíndricas (1) y (2) insertadas y que pueden girar media vuelta entre sí; la aguja que perfora la vena (3) es muy corta, está obturada en su parte posterior y tiene una ranura igual a la del tubo flexible (8) por el que se desplaza. Una vez realizado el pinchazo la aguja, en lugar de ser desecharla, como en la actualidad, queda dentro del catéter encajada en una pinza que puede desplazarse actuando de autoválvula y regulador de flujo, evita que salga sangre y regula con precisión el paso de fluidos. Cuando se acopla un suero, la pinza se desplaza hacia delante abriendo la válvula y cerrándola de forma automática al retirarlo. El flujo se regula girando entre sí las dos cámaras. Este catéter evita accidentes y contagios al no dejar como residuo agujas contaminadas con sangre.

WO 03/043686 A1

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 : A61M 25/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 : A61M 25/00, 25/01, 25/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CIBEPAT, EPODOC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5007901 A (JACK W. SHIELDS) 16.04.1991	
A	US 5480388 A (FILIBERTO P. ZADINI et al.) 02.01.1996	
A	US5536261 A (ROBERT C. STEVENS) 16.07.1996	

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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