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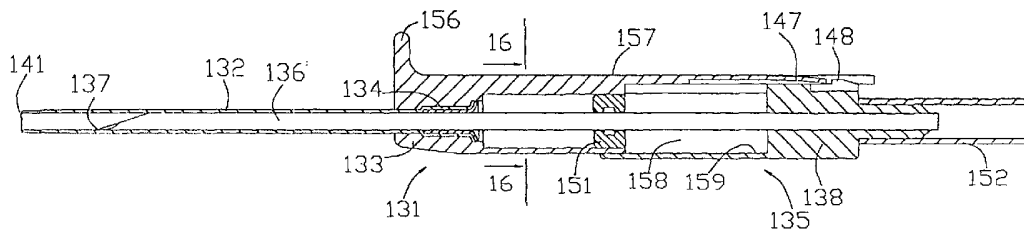
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(54) Title: SAFETY VENIPUNCTURE APPARATUS



(57) Abstract: This invention relates to medical venipuncture devices for hemodialysis, blood collection, etc. (see fig. 14). The device includes a hollow needle (35) movably located inside a tubular plastic protector (32). In the state ready for venipuncture, a needle sharp point (37) is extended distally of a protector's distal end. The user inserts the needle (36) and the protector into patient's vein and by a transposing means single-handedly displaces the protector for a short distance into the operation position, wherein the needle sharp point is concealed inside the protector eliminating the vein's injury and, subsequently, personnel's infection by the needle. A lock means disposed beyond blood flow automatically and reliably fix the device in this position. The needle and protector form a common blood passageway without vortices and clot formation. The device is provided with a sealing member (51) eliminating a blood leakage. The device features short length convenient for operation.



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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 5/00
US CL : 604/198, 263
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)
U.S. : 604/198, 263, 100, 192, 195; 600/576-578

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,279,590 A (SINKO et al.) 18 January 1994, see Figures 1, 2, and 5-7.	1, 18
A	US 5,911,705 A (HOWELL) 15 June 1999, see Figures 2-6.	1, 18
A	US 6,193,690 A (Dysarz) 27 February 2001, see abstract and Figures 1 & 5-7.	1, 18
A, P	US 6,322,537 A (CHANG) 27 November 2001, see abstract and Figures 1 & 2.	1

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"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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