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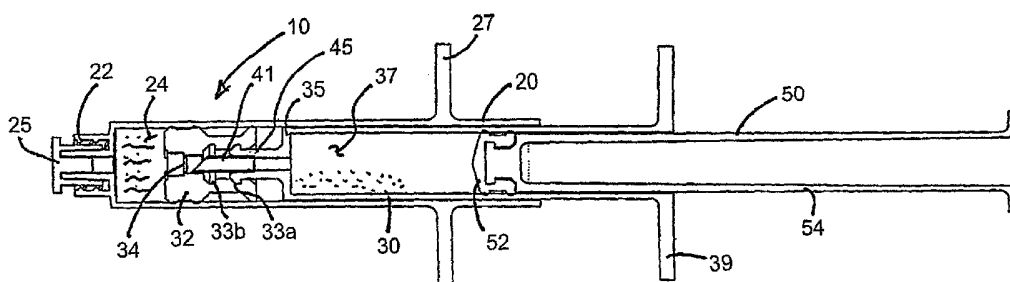
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(54) Title: DUAL CHAMBER MIXING SYRINGE AND METHOD FOR USE



(57) Abstract: A mixing syringe and method for using the mixing syringe are provided. The mixing syringe comprises a housing having a first compartment for containing a first component, an outer plunger having a second compartment for containing a second component, and an inner plunger. Prior to use, a seal separates the first and second components. To prepare the mixture, the seal is pierced and the two components are mixed. The mixing syringe and its method of use are particularly suited to applications in which at least one of the mixture components is a relatively highly viscous material.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/35229

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: A61M 37/00( 2006.01)

USPC: 604/82

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. : 604/81-85, 191

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.
X	US 4,040,420 (SPEER) 09 August 1977 (09.08.1977), column 7, lines 33-68; column 8, lines 1-7.	28-33, 35, 37-39, 42
A	US 4,188,949 (ANTOSHKIW) 19 February 1980 (19.02.1980), SEE ENTIRE DOCUMENT	1-47

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	"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
"E" earlier application or patent published on or after the international filing date	"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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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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