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(54) Title: VALVE SYSTEMS AND INJECTOR SYSTEM INCLUDING SUCH VALVE SYSTEMS

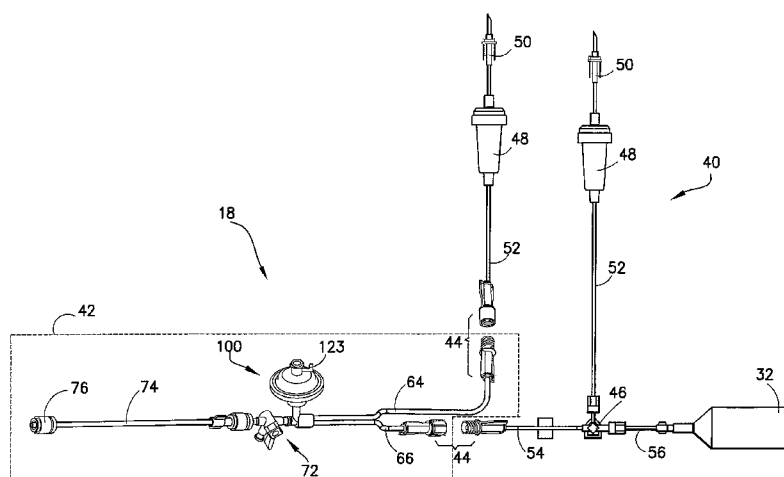


FIG.2B

(57) Abstract: A valve system for use in a system including a first source of a first pressurized fluid and a second source of a second pressurized fluid includes a valve housing including a first inlet port adapted to be placed in fluid connection with the first source, a second inlet port adapted to be placed in fluid connection with the second source and an outlet port. The valve system further includes a backflow prevention system to prevent flow of the first pressurized fluid through the second inlet and to prevent flow of the second pressurized fluid through the first inlet port. The valve system is adapted to provide a fluid path between at least the first inlet port and the outlet port to enable fluid to be drawn from the outlet port to the first inlet port. Several of the valve systems of the present invention provide for flow from the first inlet port to the outlet port and concurrent flow from the second inlet port to the outlet port.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/68458

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **F16K 11/10** (2006.01)

USPC: 137/599.03, 599.08, 601.2, 606

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. : 137/599.03, 599.08, 601.2, 606, 601.21, 102, 111, 112, 113, 114, 512.4

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)

EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,257,268 B1 (HOPE et al.) 10 July 2001 (10.07.2001), column 11, line 55 to column 13, line 32.	1, 4-6, 10-13, 25
X	US 6,083,194 A (LOPEZ) 4 July 2000 (04.07.2000), column 4, line 6 to column 8, line 37.	1, 4, 10-11, 15-18, 21-25
X	US 4,237,880 (GENESE) 9 December 1980 (09.12.1980), column 3, line 24 to column 6, line 52.	1, 4, 10-11, 15-18, 25-28
A	US 2,987,076 A (ALDERMAN) 6 June 1961 (06.06.1961), column 1, line 57 to column 2, line 60.	1-32
X	US 4,816,083 A (BANGYAN) 28 March 1989 (28.03.1989), column 5, line 26 to column 8, line 12.	1-5, 10-14, 24-25

Y		15-16
Y	US 3,021,868 A (KOVACH) 20 February 1962 (20.02.1962), column 1, 49 to column 2, line 25.	15-16

☐ Further documents are listed in the continuation of Box C.

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Date of the actual completion of the international search

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