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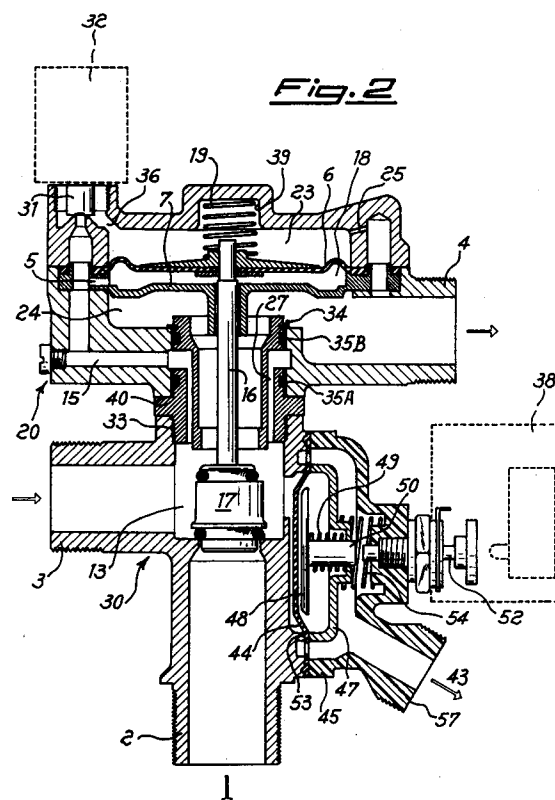
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**I-10129 Turin(IT)**(54) **An improved three-way valve.**

(57) A three-way valve for use with boilers adapted to supply both heating hot water and domestic hot water, comprising an upper portion (20) and a lower portion (30) coupled together through a threaded section (33) and sealing members (35A, 35B) so as to allow for a relative rotation thereof.

The upper portion (20) comprises an output duct (4) in communication with a heat exchanger (11), and an axially movable stem (16) carrying at one end thereof a double plug (17) and at the other end an assembly made up by a rigid dividing wall (7) and a flexible diaphragm (6), with a helical spring (19) axially acting on said stem (16), whereas the lower portion (30) comprises a chamber (13) in communication with two output ducts (2, 3) and within which the double plug (17) is movable.

The valve can further comprise a combined device performing both the flow control function (in case of lack of water in the plant) and that of automatic bypass in case of excessive loss of pressure in the plant.

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# EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 91102985.8
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	<u>GB - A - 1 151 494</u> (HORNE) * Fig. 1 *	1, 2	F 16 K 11/04 F 16 K 11/22
A		3, 4	
Y	<u>US - A - 3 582 229</u> (FELLENBERG) * Fig. 1 *	1, 2	
A		3, 4	
A	<u>US - A - 4 615 353</u> (MCKEE) * Fig. 1, 3, 8 *	1-7	
A	<u>GB - A - 1 423 119</u> (RYDBERG) * Totality *	1-7	
A	<u>DE - A - 2 847 804</u> (SABCO LTD) * Fig. 2, 5, 6 *	1-10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 16 K 11/00 F 16 K 31/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 06-03-1992	Examiner FIETZ
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			