

**EUROPEAN PATENT APPLICATION**

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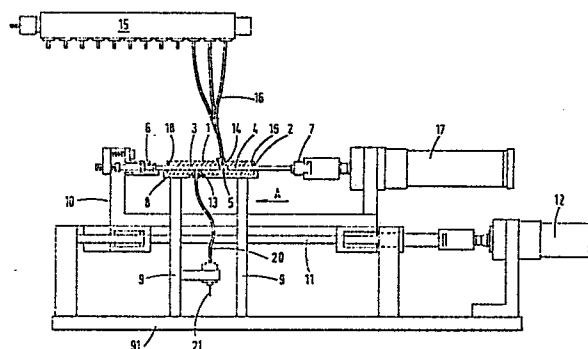
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Designated Contracting States: **AT BE CH DE FR GB IT LI LU NL SE**

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**Metering pump.**

A pump is provided which is capable of delivering measured doses of a liquid, the pump comprising a body (1) having a longitudinal passage (2), and a pair of opposed pistons (3, 4) slidably received in said longitudinal passage, cross passages in said body which communicate with the longitudinal passage and constitute respectively an inlet port and an outlet port, means for moving the pistons in unison between the inlet port and outlet port while their opposed faces are spaced by a distance defining the liquid dose and means for closing the gap between the pistons while the pistons are in the region of the outlet port so as to deliver a measured dose of liquid through the outlet.





European Patent  
Office

# EUROPEAN SEARCH REPORT

0195618

Application number

EP 86 30 1871

## DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	FR-A-2 383 607 (LAURENT) * Page 2, lines 59-80; figures *	1-5	B 01 F 15/04
A	GB-A-1 317 412 (ANCHOR) * Figures *	1, 6, 8	
A	US-A-4 290 700 (HUDIMAC) * Abstract; figures *	1, 6, 8	
A	US-A-4 366 918 (NAKA)		
A	IBM TECHNICAL DISCLOSURE BULLETIN, vol. 18, no. 1, June 1975, pages 66,67, New York, US; L.A. WILLARD: "Positive displacement dispenser"		
A	US-A-1 662 969 (GERACE)		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 01 F G 05 D B 29 C

Place of search  
THE HAGUE

Date of completion of the search  
20-08-1986

Examiner  
PEETERS S.

### CATEGORY OF CITED DOCUMENTS

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  
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document