



(11) Publication number : **0 498 117 A3**

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number : **91311330.4**

(51) Int. Cl.⁵ : **B41J 2/175**

(22) Date of filing : **05.12.91**

(30) Priority : **10.12.90 JP 409958/90**

(43) Date of publication of application :
12.08.92 Bulletin 92/33

(84) Designated Contracting States :
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

(88) Date of deferred publication of search report :
21.10.92 Bulletin 92/43

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(54) **Ink container cartridge and manufacturing method therefor.**

(57) An ink container cartridge (27) includes an ink containing portion; a plug (342) for being pierced by a hollow needle (314); a device for preventing reverse flow of the ink to the containing portion, the preventing device comprising a valve (361), a first liquid passage in which the valve is movable and a second passage disposed closer to the ink containing portion than the first passage, and the valve (361) is capable of closing the second passage.

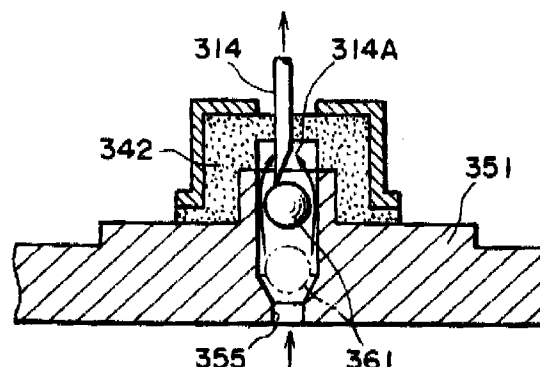


FIG. 5A

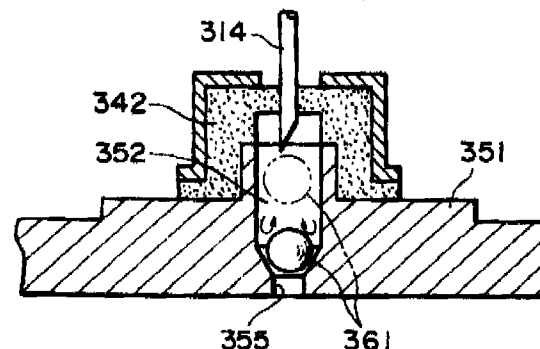


FIG. 5B



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 31 1330

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.5)
X	WO-A-9 000 976 (SIEMENS AKTIENGESELLSCHAFT) * page 9, line 5 - page 9, line 22; claims 1,4,5,6,7 *	1-13	B41J2/175
P,Y	EP-A-0 412 643 (HEWLETT PACKARD COMPANY) * column 4, line 46 - column 6, line 2; figures 3,4 *	1-9, 11-13	
Y	EP-A-0 117 718 (SHARP K.K.)	1-9, 11-13	
A	US-A-4 152 710 (MATSUBA ET AL.) * column 3, line 24 - column 3, line 32; figure 1 *	1,3-6, 11-13	
A	PATENT ABSTRACTS OF JAPAN vol. 6, no. 196 (M-161)(1074) 5 October 1982 & JP-A-57 103 876 (RICOH K.K.) 28 June 1982 * abstract *	3-5,7-9, 13	
A	US-A-4 527 175 (KOJIMA ET AL.)		TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B41J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 APRIL 1992	Examiner JOOSTING T.E.
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 L : document cited for other reasons & : member of the same patent family, corresponding document			

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