



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 949 080 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
26.01.2000 Bulletin 2000/04

(51) Int Cl.7: **B41J 2/175**

(43) Date of publication A2:
13.10.1999 Bulletin 1999/41

(21) Application number: **99301352.3**

(22) Date of filing: **24.02.1999**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

- Binnert, Thomas R.
Hammondsport, NY 14840 (US)
- Altfather, Kenneth W.
Fairport, NY 14450 (US)
- Kupchik, Vladimir M.
Pittsford, NY 14534 (US)

(30) Priority: **06.04.1998 US 56031**

(71) Applicant: **Xerox Corporation**
Rochester, New York 14644 (US)

(74) Representative:
Walker, Antony James Alexander
W.P. Thomson & Co.,
Coopers Building,
Church Street
Liverpool L1 3AB (GB)

(72) Inventors:
• Dietl, Steven J.
Ontario, NY 14519 (US)

(54) Ink container with improved sealing of ink container outlet port

(57) An ink container (16) has improved sealing properties within an ink outlet port (40). The ink port has a flexible polypropylene ring (42) inserted within the

port. Upon insertion of a manifold ink pipe (56A) into the port (40), the ring (42) is extruded around the annulus of the pipe (56A) and provides an effective seal.

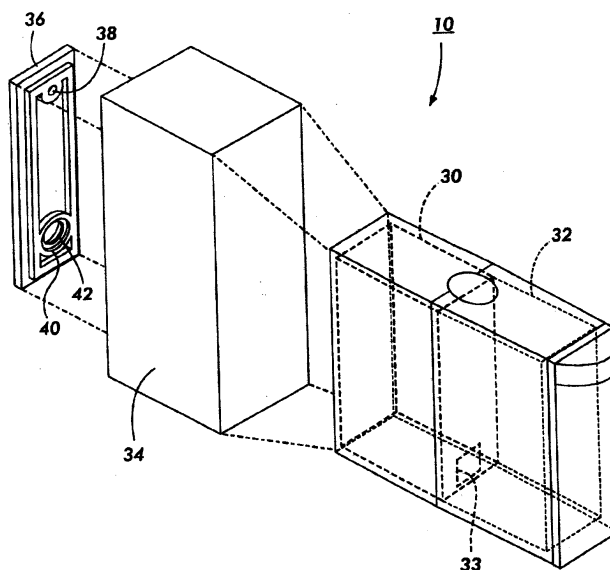


FIG. 2

EP 0 949 080 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 30 1352

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.6)
X,P	EP 0 864 428 A (SEIKO EPSON CORPORATION) 16 September 1998 (1998-09-16)	1,4,5	B41J2/175
A,P	* column 5, line 6 - column 8, line 7; figures 1-7 *	2,3,6	

X	DE 196 13 654 A (SEIKO EPSON CORPORATION) 10 October 1996 (1996-10-10)	1,4,5	
A	* column 3, line 33 - column 4, line 5; figure 2 *	2,3,6	

X,D	EP 0 786 352 A (SEIKO EPSON CORPORATION) 30 July 1997 (1997-07-30)	1,2,4	B41J
A	* column 8, line 45 - column 10, line 43; figures 9-11 *	3,5,6	

A	EP 0 665 108 A (SEIKO EPSON CORPORATION) 2 August 1995 (1995-08-02)	1,4	
	* column 3, line 36 - column 7, line 3; figures 1-5 *		

A	EP 0 720 915 A (SEIKO EPSON CORPORATION) 10 July 1996 (1996-07-10)	1,4	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
	* column 2, line 53 - column 3, line 35; figures 1-3 *		

The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 2 December 1999	Examiner Rivero, C
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			

EPO FORM 1503 03.82 (p04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 30 1352

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

02-12-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 864428 A	16-09-1998	JP 10250104 A	22-09-1998
DE 19613654 A	10-10-1996	JP 9187955 A	22-07-1997
		JP 9216375 A	19-08-1997
		DE 29623453 U	28-05-1998
		FR 2733936 A	15-11-1996
		FR 2755058 A	30-04-1998
		GB 2299786 A,B	16-10-1996
		GB 2326845 A,B	06-01-1999
		GB 2326846 A,B	06-01-1999
		GB 2326847 A,B	06-01-1999
		IT T0960263 A	06-10-1997
EP 786352 A	30-07-1997	JP 5229133 A	07-09-1993
		JP 5254139 A	05-10-1993
		DE 9218219 U	23-09-1993
		EP 0782927 A	09-07-1997
		DE 69227441 D	03-12-1998
		DE 69227441 T	18-03-1999
		EP 0553535 A	04-08-1993
		JP 5270001 A	19-10-1993
		SG 46602 A	20-02-1998
		US 5477963 A	26-12-1995
		US 5576749 A	19-11-1996
		US 5590510 A	07-01-1997
		US 5790158 A	04-08-1998
		US 5657058 A	12-08-1997
		US 5488401 A	30-01-1996
		US 5844578 A	01-12-1998
EP 665108 A	02-08-1995	JP 7125238 A	16-05-1995
		DE 69420696 D	21-10-1999
		EP 0914956 A	12-05-1999
		SG 52541 A	28-09-1998
		US 5633667 A	27-05-1997
		US 5907341 A	25-05-1999
EP 720915 A	10-07-1996	JP 8187875 A	23-07-1996
		US 5896151 A	20-04-1999

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82