



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
03.02.2010 Bulletin 2010/05

(51) Int Cl.:
B41J 35/08 (2006.01)

(43) Date of publication A2:
01.10.2008 Bulletin 2008/40

(21) Application number: **08153365.5**

(22) Date of filing: **27.03.2008**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT
RO SE SI SK TR
 Designated Extension States:
AL BA MK RS

(30) Priority: **30.03.2007 IT TO20070230**

(71) Applicant: **EIDOS S.p.A.**
10023 Chieri (Torino) (IT)

(72) Inventors:
 • **Tabasso, Giovanni**
10025 Pino Torinese (Torino) (IT)
 • **Casetta, Mauro**
12046 Monta' Fraz. San Vito (Cuneo) (IT)

(74) Representative: **Quinterno, Giuseppe et al**
Jacobacci & Partners S.p.A.
Corso Emilia 8
10152 Torino (IT)

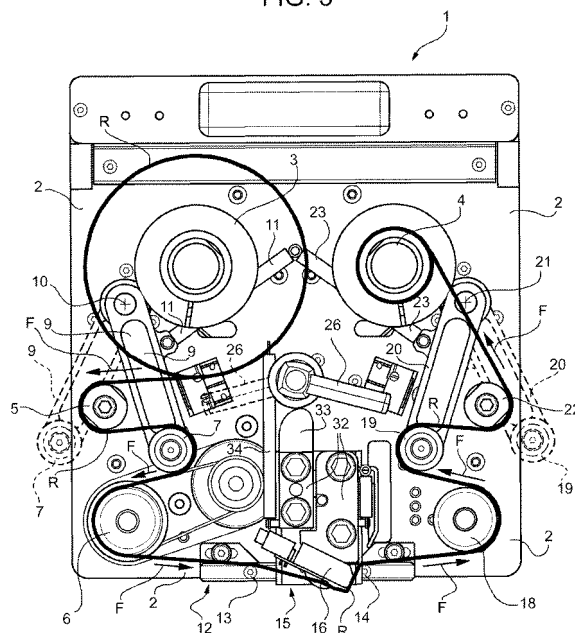
(54) **Machine for printing images on articles**

(57) The machine (1) comprises a support structure (2) on which a reel (3) for unwinding the ink ribbon (R) and a reel (4) for rewinding the used ribbon (R) are rotatably mounted. Between said reels (3, 4) there is defined a path for the ribbon (R), including a first and a second pair of transmission rollers (5, 6; 18, 22) between which a thermal print head (16) is arranged.

The machine (1) also comprises a first and second tensioning device (7, 9, 11; 19, 20, 23) including respective tensioning rollers (7, 19) each movable along a trajectory which intersects the path of the ribbon (R) between the two transmission rollers (5, 6; 18, 22) of each pair.

A switching device (24-26) is connected to the tensioning rollers (7, 19) of the tensioning devices (7, 9, 11; 19, 20, 23) and is able to be set selectively to a first condition (Figure 2) where the tensioning rollers (7, 19) are arranged in a disengaged position where they extend externally and at a distance from the ribbon path (R) between the corresponding pair of transmission rollers (5, 6; 18, 22), and a second condition where the tensioning rollers (7, 19) are free to assume, under the action of one or more springs (11, 23; 40), an operative position where the ribbon (R) is engaged between the corresponding pair of transmission rollers (5, 6; 18, 22), tending to form between the rollers of these pairs a loop of ribbon (R).

FIG. 5





EUROPEAN SEARCH REPORT

Application Number
EP 08 15 3365

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	JP 03 083682 A (ALPS ELECTRIC CO LTD) 9 April 1991 (1991-04-09) * abstract *	1-7	INV. B41J35/08
Y	JP 2001 260506 A (ALPS ELECTRIC CO LTD) 25 September 2001 (2001-09-25) * abstract *	1-7	
Y	JP 60 021287 A (TOKYO ELECTRIC CO LTD) 2 February 1985 (1985-02-02) * abstract *	1-7	
Y	JP 06 320766 A (COPAL CO LTD; KONISHIROKU PHOTO IND) 22 November 1994 (1994-11-22) * abstract *	1-7	
P,Y	EP 1 800 880 A (YUYAMA MFG CO LTD [JP]) 27 June 2007 (2007-06-27) * claim 1; figure 15 *	1-7	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			B41J
Place of search		Date of completion of the search	Examiner
The Hague		22 December 2009	Joosting, Thetmar
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

1
EPO FORM 1503 03.02 (P04/C01)

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

EP 08 15 3365

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.

22-12-2009

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 3083682	A	09-04-1991	JP 2786897 B2	13-08-1998
JP 2001260506	A	25-09-2001	NONE	
JP 60021287	A	02-02-1985	NONE	
JP 6320766	A	22-11-1994	JP 3325951 B2	17-09-2002
EP 1800880	A	27-06-2007	CN 101035683 A	12-09-2007
			CN 101590922 A	02-12-2009
			WO 2006041016 A1	20-04-2006
			JP 2006130307 A	25-05-2006
			KR 20070093390 A	18-09-2007
			US 2009085451 A1	02-04-2009
			US 2008029530 A1	07-02-2008