

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number: **80105776.1**

(51) Int. Cl.³: **B 41 J 35/22**
B 41 J 33/16, B 41 J 33/38

(22) Date of filing: **25.09.80**

(30) Priority: **30.10.79 US 89661**
30.10.79 US 89662

(43) Date of publication of application:
06.05.81 Bulletin 81/18

(88) Date of deferred publication of search report: **10.11.82**

(84) Designated Contracting States:
BE CH DE FR GB IT LI NL

(71) Applicant: **International Business Machines Corporation**

Armonk, N.Y. 10504(US)

(72) Inventor: **Kacmarcik, Donald J.**
423 Whispering Hills Drive
Lexington, KY 50403(US)

(72) Inventor: **Okcuoglu, Selahattin A.**
2001 Blairmore Road
Lexington, KY 40502(US)

(72) Inventor: **Raider, Jerry W.**
445 Lakeshore Drive
Lexington, KY 40502(US)

(74) Representative: **Tubiana, Max**
COMPAGNIE IBM FRANCE Département de Propriété Industrielle
F-06610 La Gaude(FR)

(54) **Improved ribbon feed and lift mechanism for a typewriter.**

(57) In a daisy wheel (17) or rotary print wheel typewriter, a single motor (47) (stepper motor) is employed to accomplish both ribbon lift and feed for typewriter ribbon (16) and correction ribbon (30) loaded in a cartridge assembly (15). A single motor drive moves a cartridge assembly support about an axis (41) to present either the typewriter ribbon or the correction ribbon to the print point at the print line. In the first portion of the arc that the cartridge assembly moves up for normal typing with the typewriter ribbon, only the feed ratchet (65) for the typewriter ribbon is engaged into drive pawl (81). Alternatively, when the rotation is greater, to present a correction ribbon at the print line, the added elevation of the cartridge assembly causes the correction ribbon ratchet (66) with drive pawl (82) together with disengagement of the ratchet (65) from pawl 81 through camming effect due to ratchet (66), pawl (82) and link (85). When the cartridge assembly is brought back down about axis (41), the only pawl engaged ratchet is driven thus driving the corresponding ribbon by one feed increment.

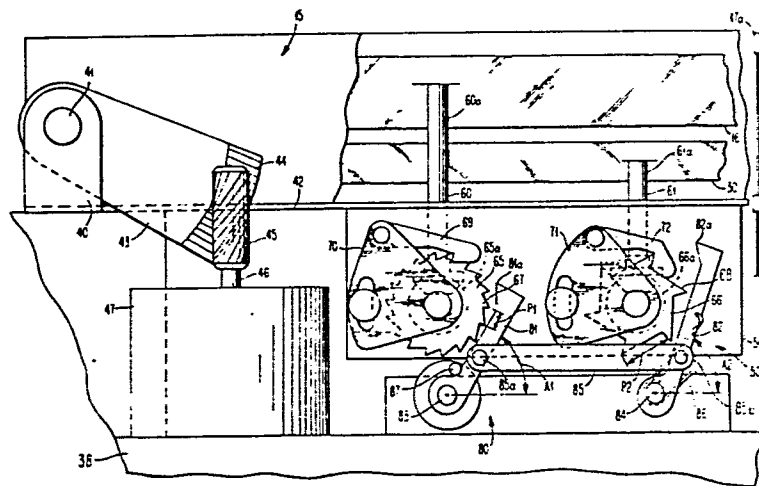


FIG. 3



European Patent
Office

EUROPEAN SEARCH REPORT

0027901

Application number

EP 80 10 5776

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. 3)
A	US-A-2 349 769 (SUNDSTRAND) *The whole document*	1,2	B 41 J 35/22 B 41 J 33/16 B 41 J 33/38
D,A	FR-A-2 391 853 (I.B.M.) *The whole document*		
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
			B 41 J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 05-08-1982	Examiner LOUVION B.A.G.A.
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	