

19



Europäisches Patentamt
European Patent Office
Office européen des brevets



11 Publication number:

0 584 583 A3

12

EUROPEAN PATENT APPLICATION

21 Application number: **93112300.4**

51 Int. Cl.⁵: **G03B 17/26, G03C 3/00**

22 Date of filing: **30.07.93**

30 Priority: **03.08.92 JP 206653/92**
12.10.92 JP 272987/92
07.12.92 JP 326982/92

43 Date of publication of application:
02.03.94 Bulletin 94/09

84 Designated Contracting States:
DE NL

88 Date of deferred publication of the search report:
18.05.94 Bulletin 94/20

71 Applicant: **FUJI PHOTO FILM CO., LTD.**
No. 210, Nakanuma
Minami-Ashigara-shi
Kanagawa-ken(JP)

72 Inventor: **Shimizu, Makoto, c/o Fuji Photo Film**
Co., Ltd.
210 Nakanuma,
Minami-Ashigara-shi

Kanagawa-ekn(JP)
Inventor: **Esaki, Toshiro, c/o Fuji Photo Film**
Co., Ltd.

210 Nakanuma,
Minami-Ashigara-shi
Kanagawa-ekn(JP)

Inventor: **Shibata, Tadayoshi, c/o Fuji Photo**
Film Co., Ltd.

210 Nakanuma,
Minami-Ashigara-shi
Kanagawa-ekn(JP)

Inventor: **Takahashi, Koichi, c/o Fuji Photo**
Film Co., Ltd.

210 Nakanuma,
Minami-Ashigara-shi
Kanagawa-ekn(JP)

74 Representative: **Patentanwälte Grünecker,**
Kinkeldey, Stockmair & Partner
Maximilianstrasse 58
D-80538 München (DE)

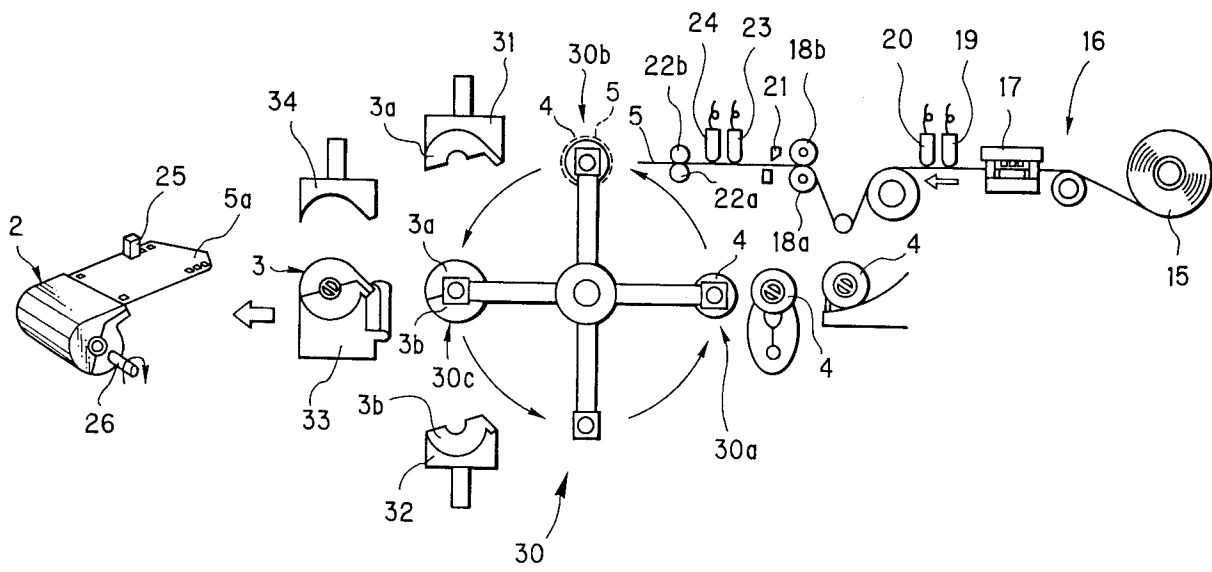
54 **Method and apparatus for manufacturing photographic film and photographic film cassette.**

57 In a photographic film cassette manufacturing apparatus, a perforator (7) for providing a long film (15) with perforations and a cutter (21) for cutting the long film into individual filmstrip to be contained in the film cassette are driven synchronously with transport of the long film. A magnetic recording head (19) for recording data on a magnetic recording layer of the long film is driven in synchronism with the perforator or the cutter. The long film is transported in a first direction before being cut into the individual filmstrips. In cooperation with the cutting, the trailing end of the individual filmstrip in the first direction is held to be displaced from the long film transport

path, and moved in the reverse of the first direction so as to secure the trailing end to the spool. A cassette shell (3) consisting of a pair of shell halves is temporarily assembled by mating the shell halves together while containing a spool inside the shell halves, and thereafter opened to an extent that confining elements still confine the flanges of the spool. The trailing end of the filmstrip is inserted into the opened cassette shell and secured to the spool. Then, the shell halves are mated together again and the spool is rotated so as to wind the filmstrip into the closed cassette shell.

EP 0 584 583 A3

FIG. 4





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)
Y	US-A-4 574 563 (S. SHIMIZU) * column 3, line 24 - column 7, line 3 * * figures *	1,2,16, 19,20, 22,23	G03B17/26 G03C3/00
A	---	18	
Y	WO-A-90 04254 (EASTMAN KODAK COMPANY) * abstract; figure 1 *	1,2,16, 19,20, 22,23	
A	---	18	
A	EP-A-0 082 675 (KONISHIROKU PHOTO INDUSTRY CO. LTD.) * page 4, line 21 - page 7, line 1 * * figures 1-4 * -----	1,18,19, 22	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			G03B G03C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 November 1993	Examiner HERYET, 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	



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,
namely claims:
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions,
namely:

See sheet -B-

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid,
namely claims:
- None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.
namely claims: 1-24



European Patent
Office

EP 93 11 2300 -B-

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-24 : Magnetic marking of filmstrip
2. Claims 25-36 : Cutting and spooling of filmstrip
3. Claims 37-44 : Widening of cartridge housing mouth for insertion of filmstrip