## United States Patent [19]

#### Watanabe

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Oct. 29, 1991

[54]	MICROFILM READER/PRINTER		
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[73]	Assignee:	Fuji Japa	i <b>Photo Film Co., Ltd.,</b> Kanagawa, an
[21]	Appl. No.:	599,	940
[22]	Filed:	Oct	. 19, 1990
[30]	Foreig	n Ap	plication Priority Data
Oct. 20, 1989 [JP] Japan			
[51]	Int. Cl.5		G03B 13/28
[52]	U.S. Cl		
[58]	Field of Se	arch	355/44; 355/60 355/44, 45, 64, 23,
زددا	1 1014 01 50	ui Cii	355/24, 25, 60, 63
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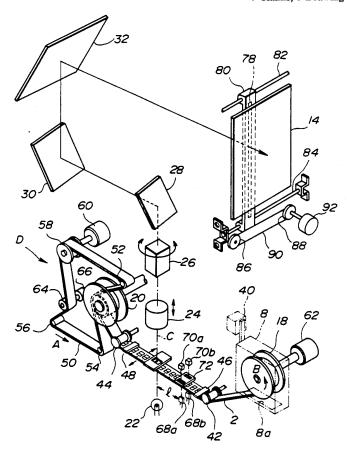
Primary Examiner—Monroe H. Hayes Attorney, Agent, or Firm—Sughrue, Mion, Zinn,

Macpeak & Seas

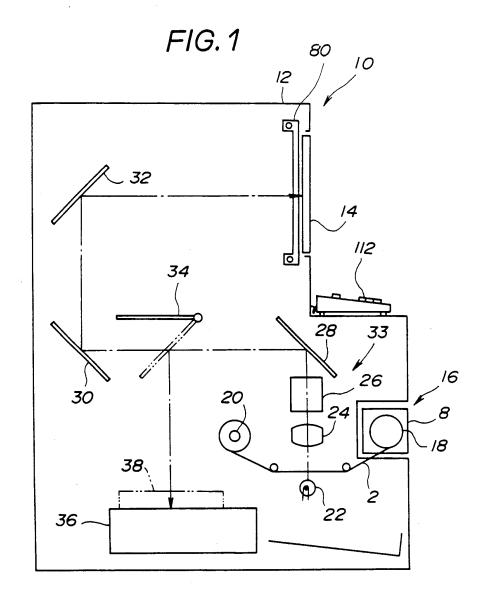
[57] ABSTRACT

A microfilm reader/printer for selecting a desired image from images recorded on a microfilm roll to print the desired image, the images being recorded by the duo photographing system in two channels so that the images recorded in one channel are in the normal orientation while the images recorded in the other channel are in the inverted orientation. Desired images are printed by the microfilm reader/printer always in the normal orientation irrespective of the orientation thereof recorded in either one of the two channels on the duo mode microfilm automatically without the need of manual operation. Channel exchanging means and image rotating means are combined so that orientation of images is inverted every time the channel being retrieved is exchanged so as to display or print desired images in the same orientation. The channel exchanging means may be mechanical or optical means, and the image rotating means may be optical or electronic image processing means. The same object is achieved by the combination of channel exchange position detecting means and an image processor associated with an image sen-

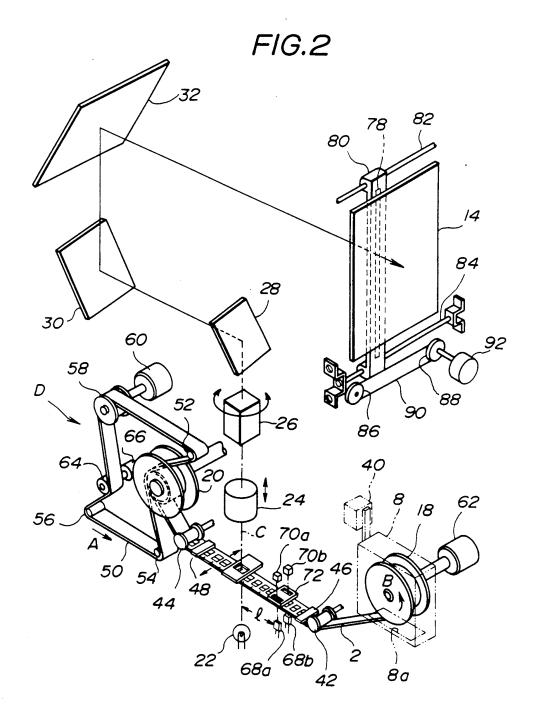
7 Claims, 5 Drawing Sheets



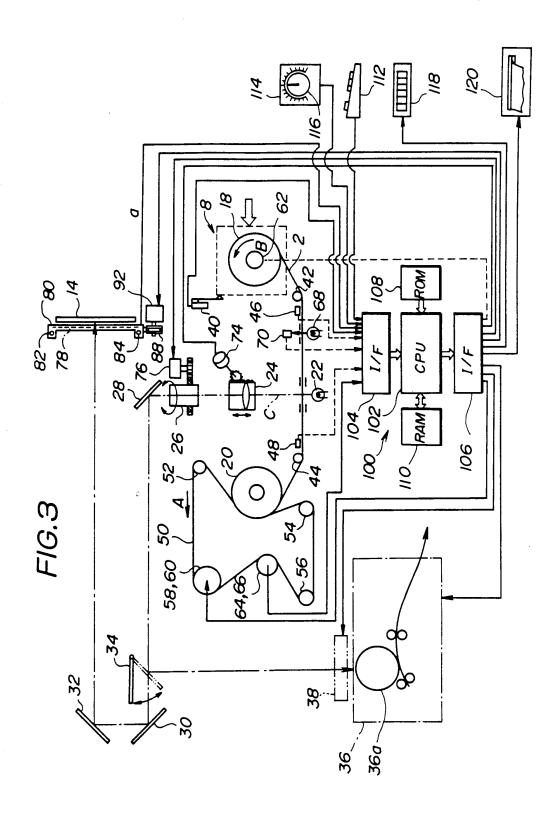




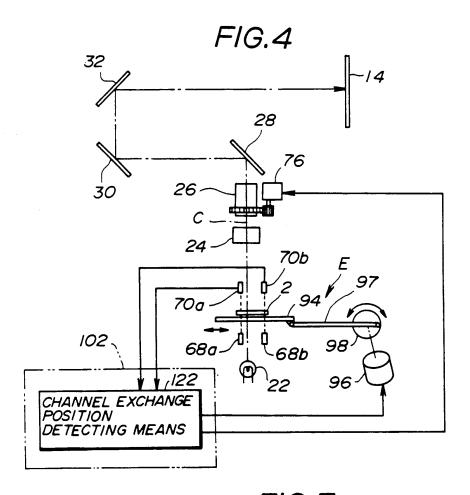


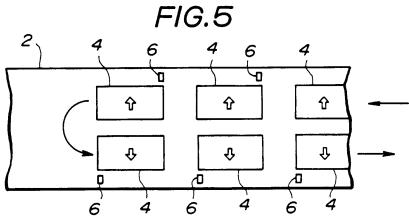












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