Sato et al.

[45] **Jun. 28, 1983**

[54]	COLOR IMAGE PICK-UP APPARATUS								
[75]	Inventor	Ooi Yol Tos	Itsuzo Sato, Chigasaki; Kazushige Ooi, Sagamihara; Kikuo Saito, Yokohama; Yasuo Takemura, Tokyo; Toshihiro Shinohara, Yokohama, all of Japan						
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[21]	Appl. N	o.: 301	,440						
[22]	Filed:	Sep	. 11, 1981						
[30] Foreign Application Priority Data									
Oct. 7, 1980 [JP] Japan 55-139369									
[52]	U.S. Cl.								
[56]	[56] References Cited								
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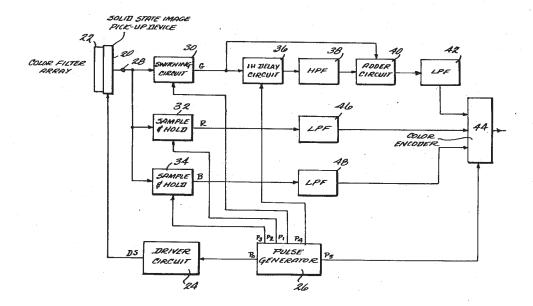
I.E.E.E. Transactions on Electron Devices vol. ED-25, No. 2, Feb. 1978.

Primary Examiner—Robert L. Richardson Attorney, Agent, or Firm—Cushman, Darby & Cushman

[57] ABSTRACT

A color image pick-up apparatus using a single planar array of solid state light-sensitive elements with a color mosaic filter. The color mosaic filter is made up of three types of elements occurring in repeating patterns which are such that luminance-type elements occur at every other element portion along both of two orthogonal direction. The signal corresponding to luminance is separated from the output signal of the solid state light-sensitive elements and delayed for one horizontal scanning period. The high frequency component of the delayed signal is extracted. The extracted high frequency component signal is added to the signal corresponding to luminance which is succeedingly produced from the solid state light-sensitive elements.

9 Claims, 13 Drawing Figures

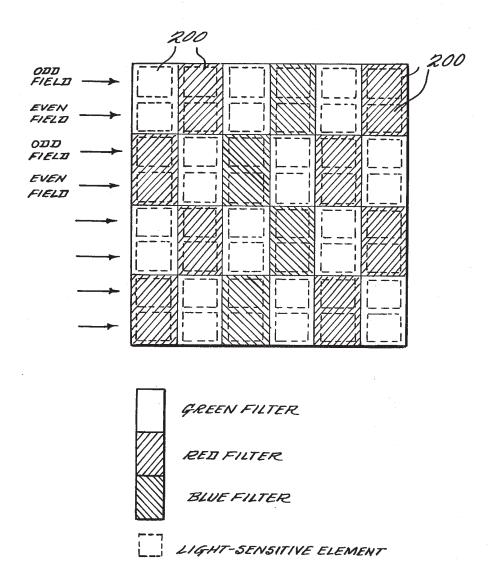


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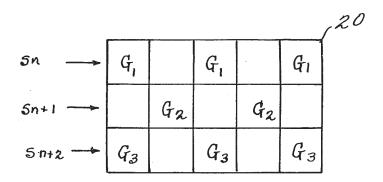


F 1 G. 2



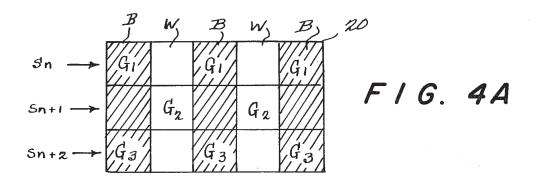


F / G. 3A

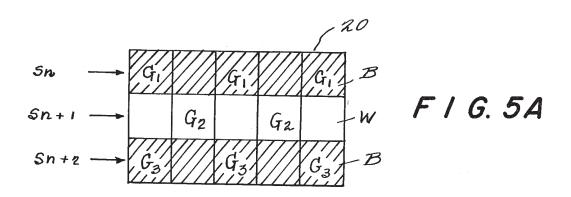


F / G. 3B

Sn +5n+1	GIH	Gz	GIH	G2	Gih
5n+1+5n+2	G ₃	GZH	Сз	GZH	G3

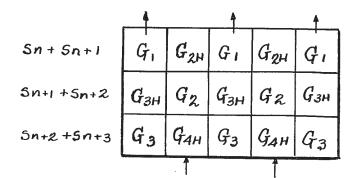


F 1 G. 4B 5n+1+5n+2



F 1 G. 5 B

5n+5n+1	GIH	G_2	GIH	Gz	G_{1H}
Sn+1 +Sn+2	G3	GzH	G3	GaH	G_3



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