EXHIBIT 6



(12) United States Patent

Nakano et al.

US 8,339,493 B2 (10) **Patent No.:** *Dec. 25, 2012 (45) Date of Patent:

(54) ELECTRIC CAMERA

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Assignee: Hitachi, Ltd., Tokyo (JP)

Subject to any disclaimer, the term of this Notice:

patent is extended or adjusted under 35

U.S.C. 154(b) by 136 days.

This patent is subject to a terminal dis-

claimer.

Appl. No.: 12/845,266

(22)Filed: Jul. 28, 2010

(65)**Prior Publication Data**

> US 2010/0289907 A1 Nov. 18, 2010

Related U.S. Application Data

(60) Continuation of application No. 10/660,710, filed on Sep. 12, 2003, now Pat. No. 8,059,177, which is a division of application No. 09/520,836, filed on Mar. 8, 2000, now Pat. No. 6,765,616.

(30)Foreign Application Priority Data

Jan. 11, 2000 (JP) 2000-006064

(51) Int. Cl. H04N 5/335 (2011.01)

U.S. Cl. **348/294**; 348/322; 348/312; 348/273

Field of Classification Search None See application file for complete search history.

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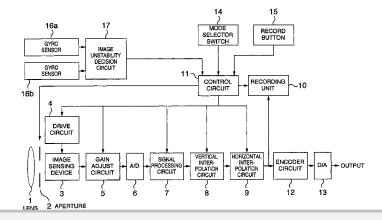
Primary Examiner — Luong T Nguyen

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(57)ABSTRACT

An electric camera includes an image sensing device with a light receiving surface having N vertically arranged pixels and an arbitrary number of pixels arranged horizontally, N being equal to or more than three times the number of effective scanning lines M of a display screen of a television system, a driver to drive the image sensing device to vertically mix or cull signal charges accumulated in individual pixels of K pixels to produce, during a vertical effective scanning period of the television system, a number of lines of output signals which corresponds to 1/K the number of vertically arranged pixels N of the image sensing device, K being an integer equal to or less than an integral part of a quotient of N divided by M, and a signal processing unit having a function of generating image signals by using the output signals of the image sensing device.

14 Claims, 8 Drawing Sheets





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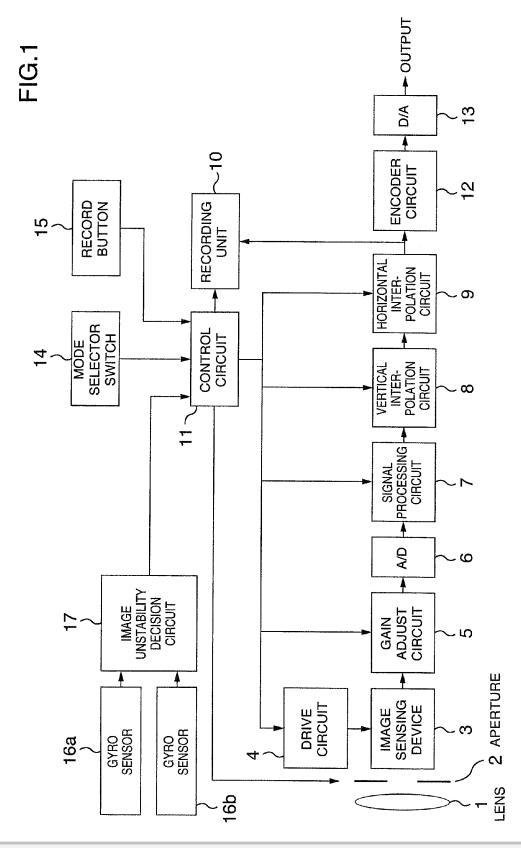


FIG.2

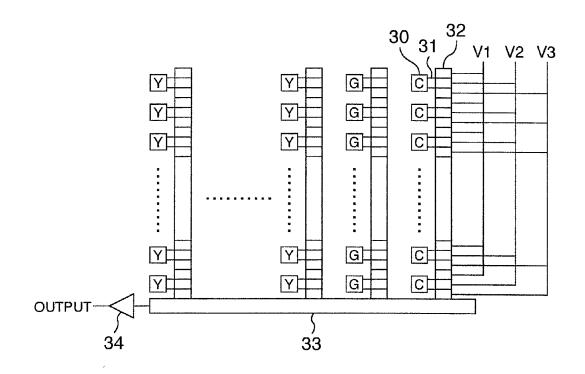
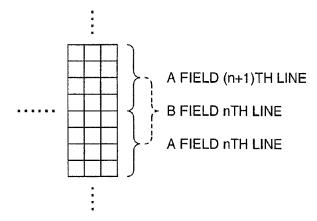
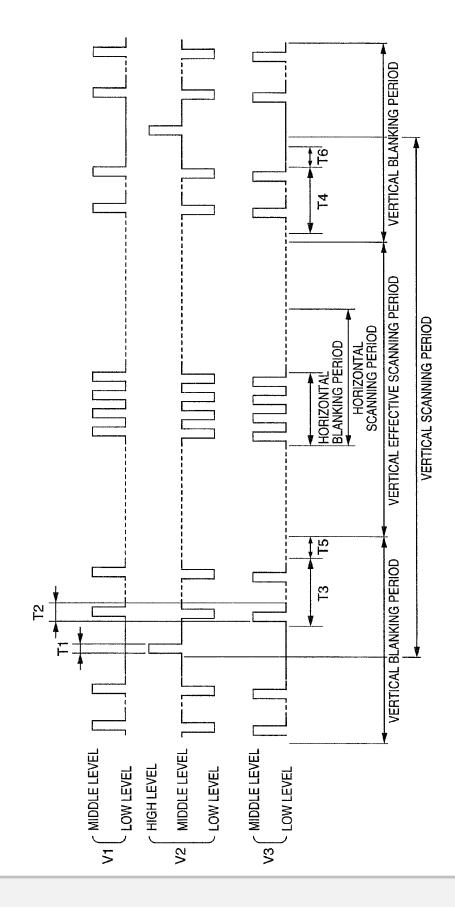


FIG.4









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