

[54] X-RAY IMAGING SYSTEM AND SOLID STATE DETECTOR THEREFOR

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Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 151,235, Feb. 1, 1988, Pat. No. 4,905,264, which is a continuation-in-part of Ser. No. 807,650, Dec. 11, 1985, abandoned.

[51] Int. Cl.⁵ G01T 1/29; G01T 1/16

[52] U.S. Cl. 250/370.09; 250/370.11; 250/336.1; 250/366

[58] Field of Search 250/336.1, 336.2, 370.09, 250/370.11, 366; 357/32

References Cited

U.S. PATENT DOCUMENTS

4,660,066 5/1987 Reid 357/30

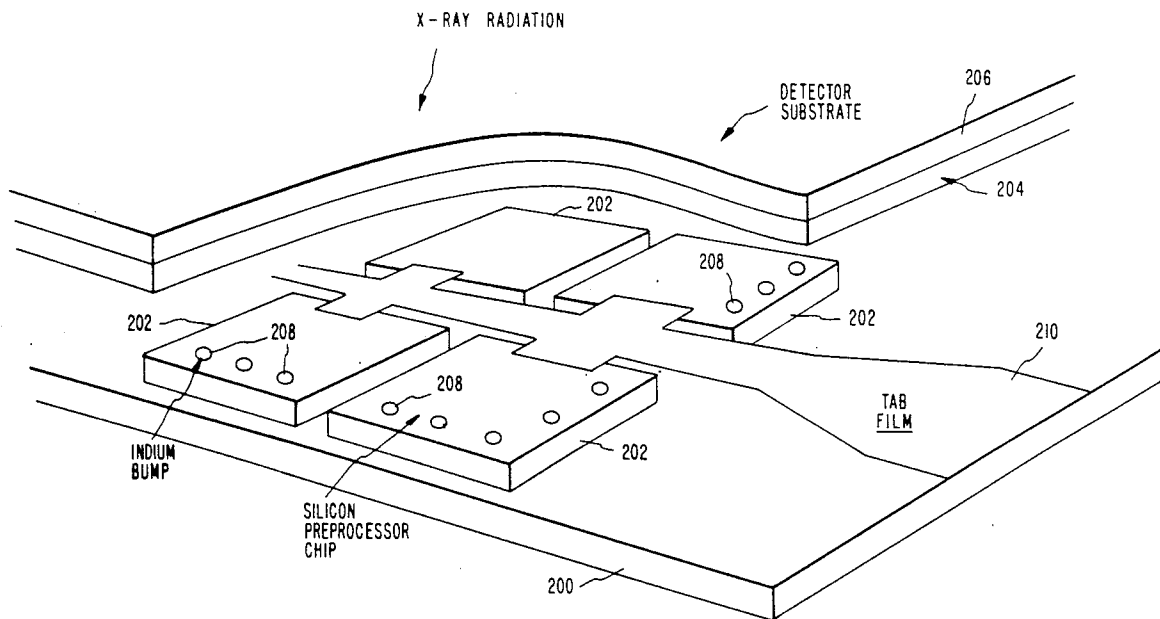
4,672,454	6/1987	Cannella et al.	250/370.11 X
4,675,730	6/1987	Catchpole et al.	358/213.11
4,807,000	2/1989	Gurnee et al.	357/30
4,810,881	5/1989	Berger et al.	250/370.01
4,905,265	2/1990	Cox et al.	378/99
4,927,771	5/1990	Ferreh X	357/32 X
4,940,901	7/1990	Henry et al.	250/370.09
4,948,978	8/1990	Guyot X	250/370.11

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[57] ABSTRACT

The x-ray detector comprises a plurality of closely adjacent radiation sensing arrays facing a plurality of preprocessing circuits. Bump bonds are connected directly from said sensing arrays to said preprocessing circuits. Added absorber material may be included next to the sensing arrays for converting impinging x-rays to free electrons for affecting a charge on the sensing arrays. Alternately, a scintillator may be positioned between the sensing arrays and the preprocessing circuits and sensing cells in the sensing arrays may be exposed to the scintillator.

20 Claims, 11 Drawing Sheets



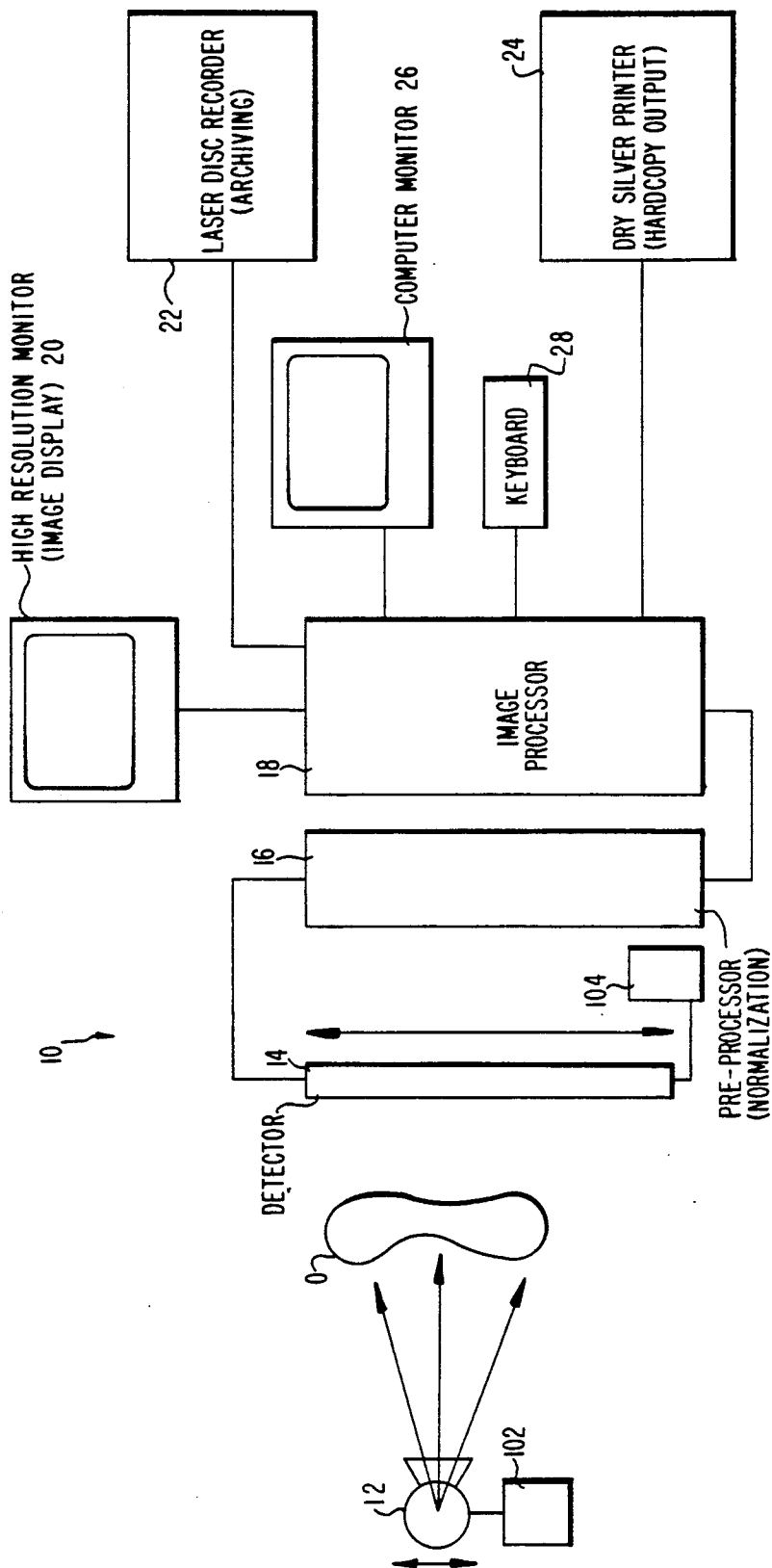


FIG. 1

FIG. 7

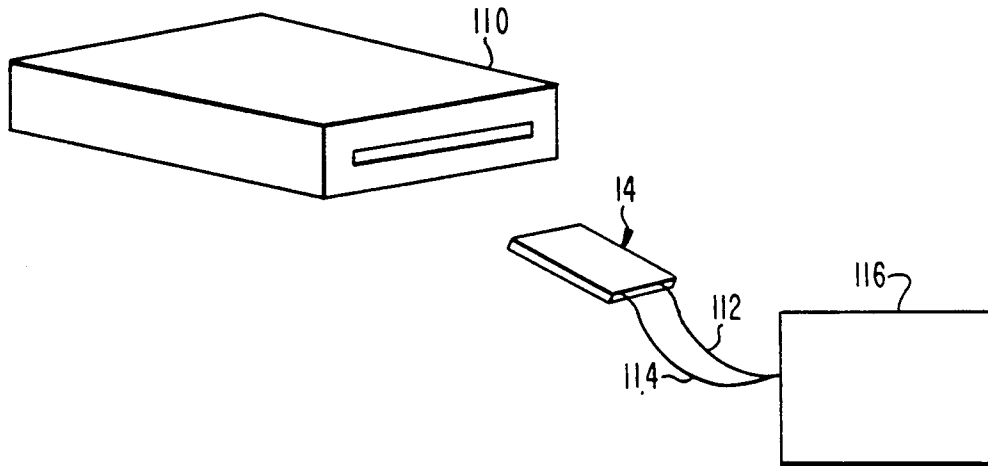
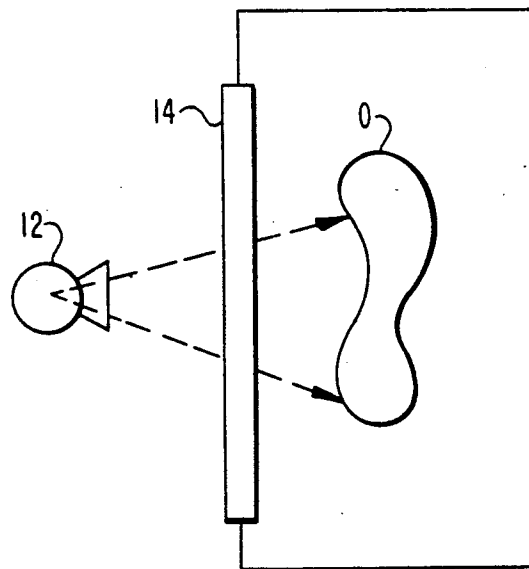


FIG. 9



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