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United States Patent [19]

[11] **Patent Number:** 5,448,607

McKenna

[45] **Date of Patent:** Sep. 5, 1995

[54] **X-RAY TOMOGRAPHY SYSTEM WITH GANTRY PIVOT AND TRANSLATION CONTROL**

5,109,397 4/1992 Gordon et al. 378/4

[75] **Inventor:** Gilbert W. McKenna, Revere, Mass.

FOREIGN PATENT DOCUMENTS

[73] **Assignee:** Analogic Corporation, Peabody, Mass.

8703190 U 8/1988 Germany .

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[21] **Appl. No.:** 193,562

[22] **Filed:** Feb. 8, 1994

[57] ABSTRACT

[51] **Int. Cl.⁶** A61B 6/04

[52] **U.S. Cl.** 378/4; 378/193;
378/195; 378/198

[58] **Field of Search** 378/193-198,
378/11, 15, 4, 146, 17

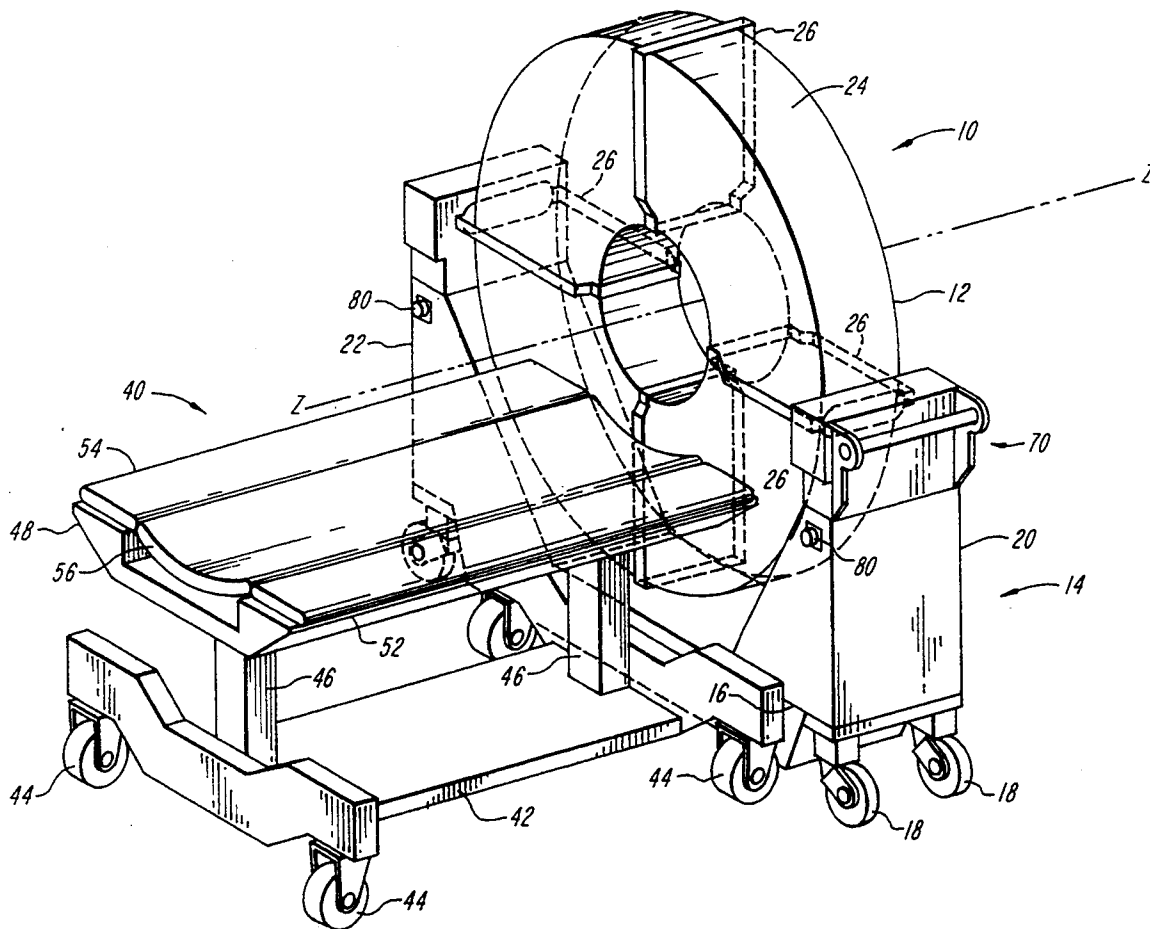
An improved, portable X-ray tomography system is disclosed wherein lateral movement of the various tomography components relative to a stationary patient during a scanning procedure is precisely controlled by mechanical displacement means which, in turn, is coupled to electro-mechanical means for simultaneously measuring and monitoring the amount of the displacement.

[56] References Cited

U.S. PATENT DOCUMENTS

4,131,802 12/1978 Braden et al. 378/4
4,928,283 5/1990 Gordon 378/4

32 Claims, 6 Drawing Sheets



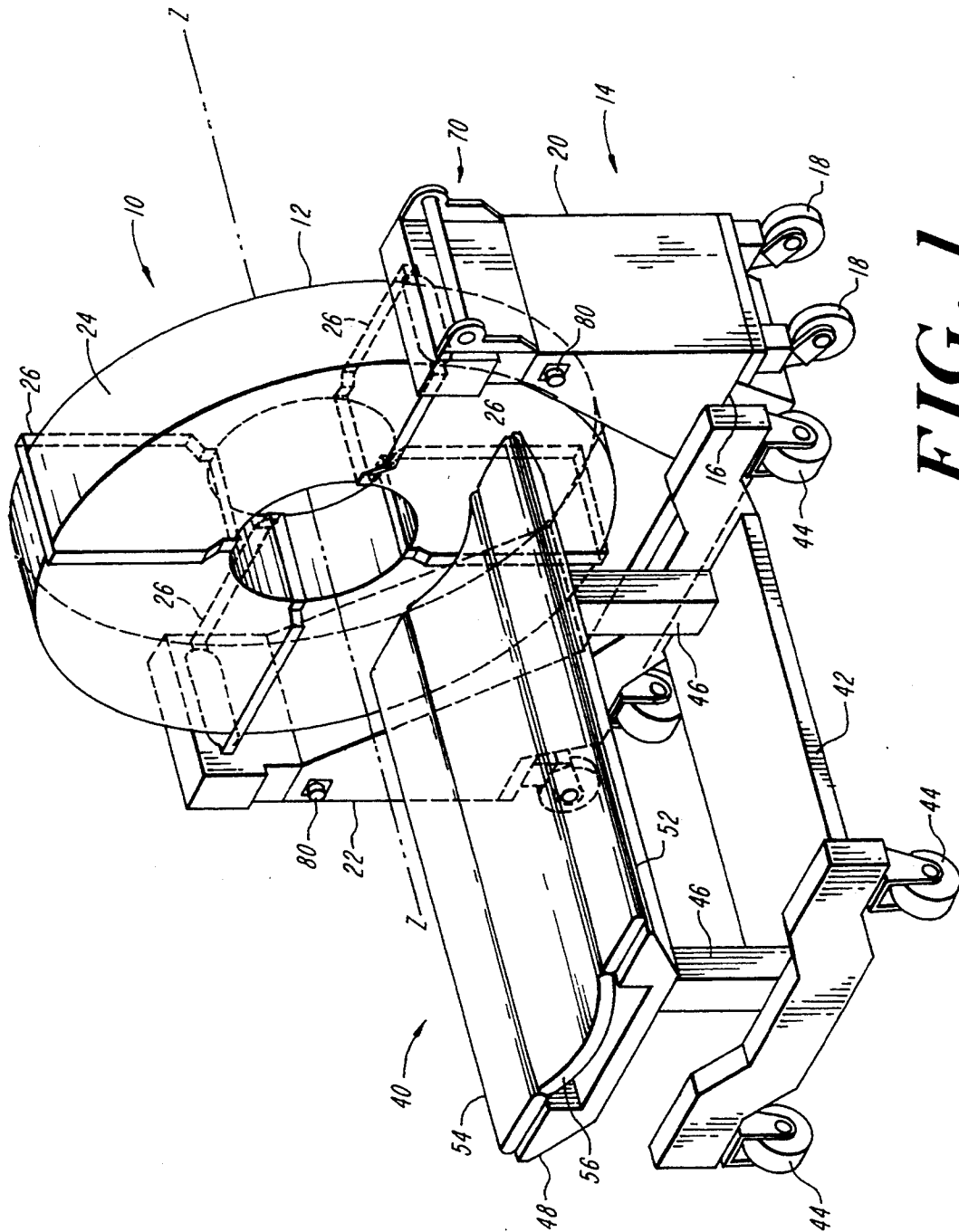


FIG. 1

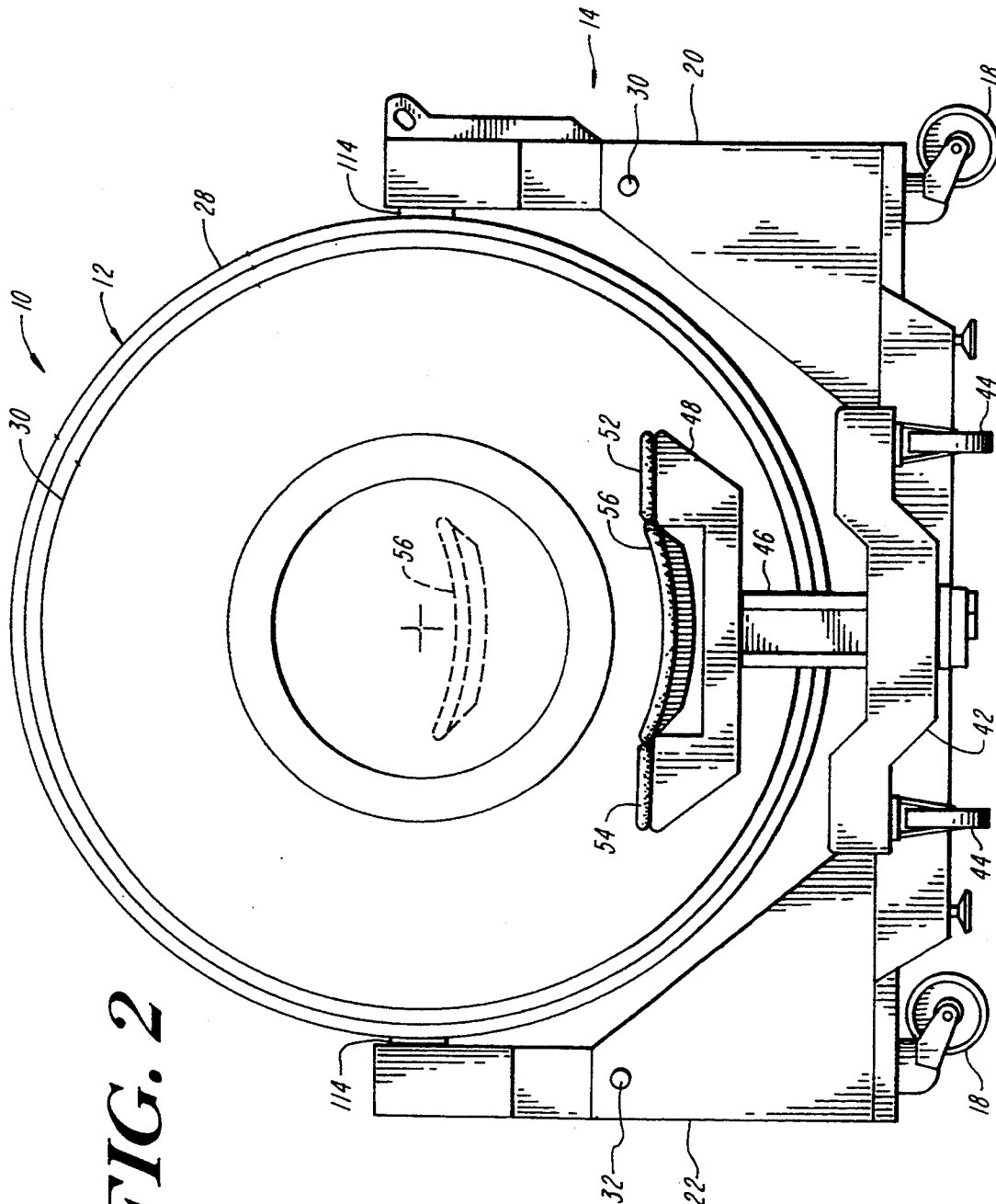


FIG. 2

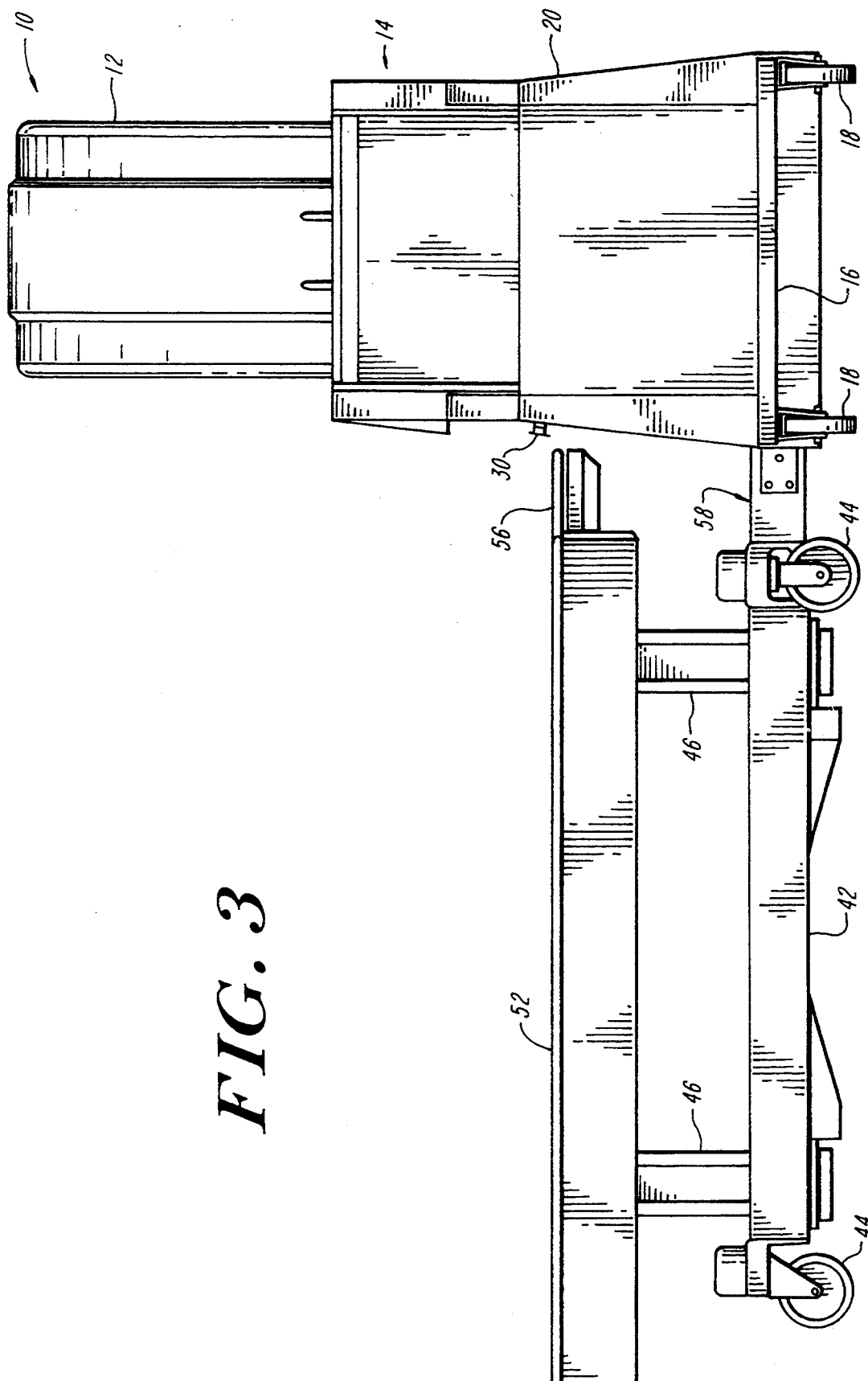


FIG. 3

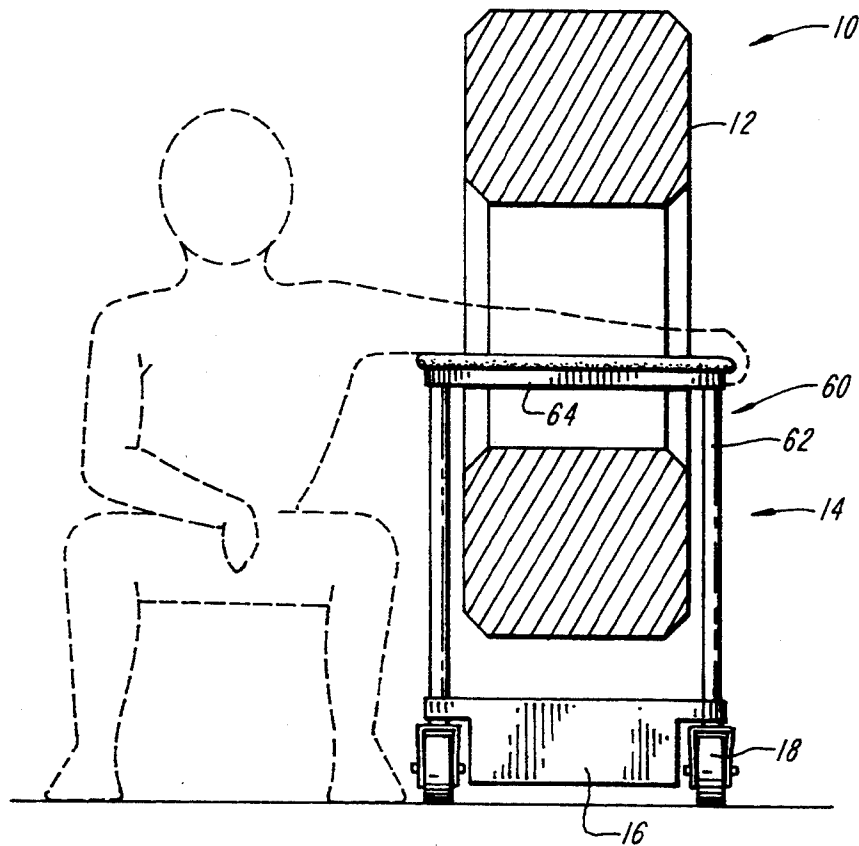


FIG. 4

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