



US005448607A

# United States Patent [19]

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

### [57] ABSTRACT

[51] **Int. Cl.<sup>6</sup>** ..... 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

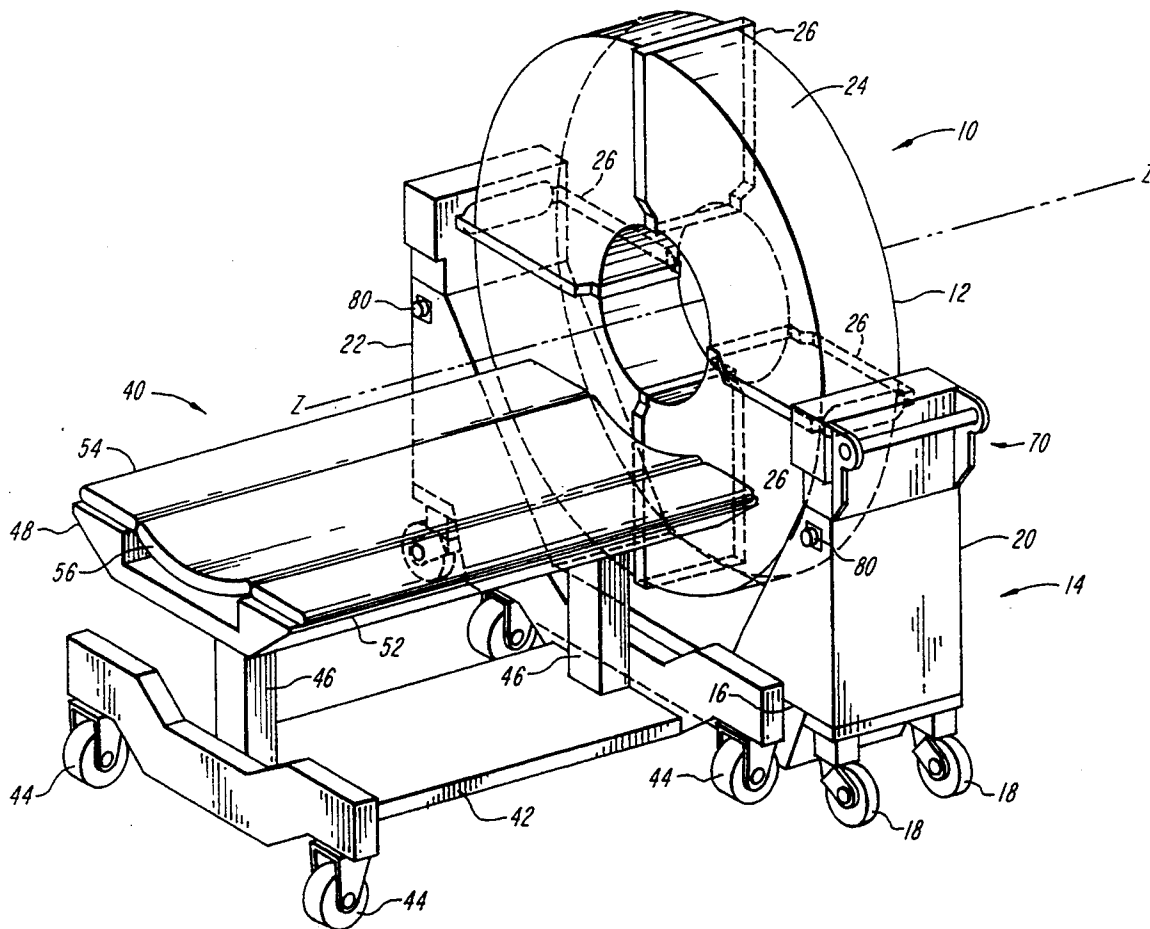
An improved, portable X-ray tomography system is disclosed wherein lateral movement of the various tomography components relative to a stationary patient during a scanning procedure is precisely controlled by mechanical displacement means which, in turn, is coupled to electro-mechanical means for simultaneously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



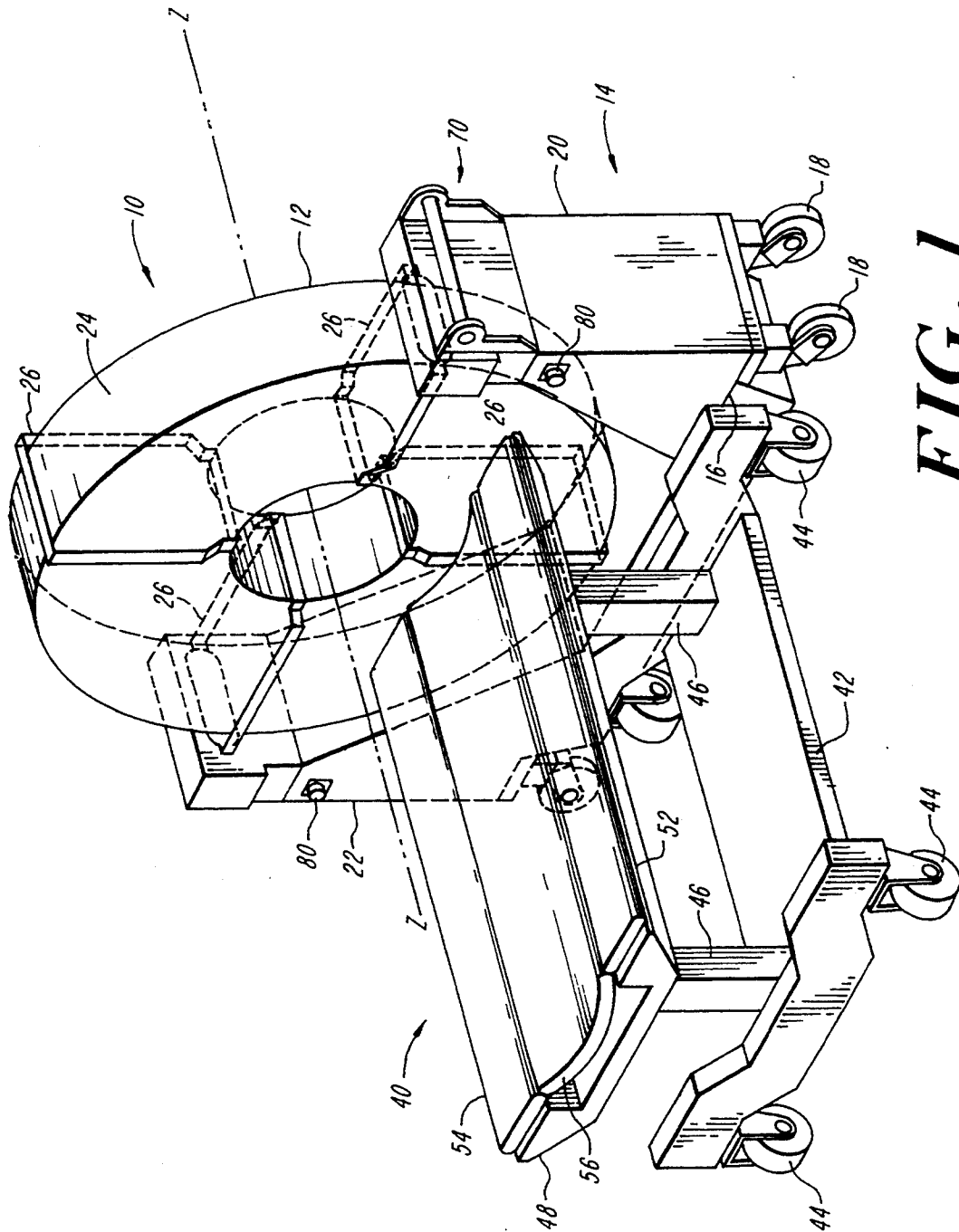


FIG. 1

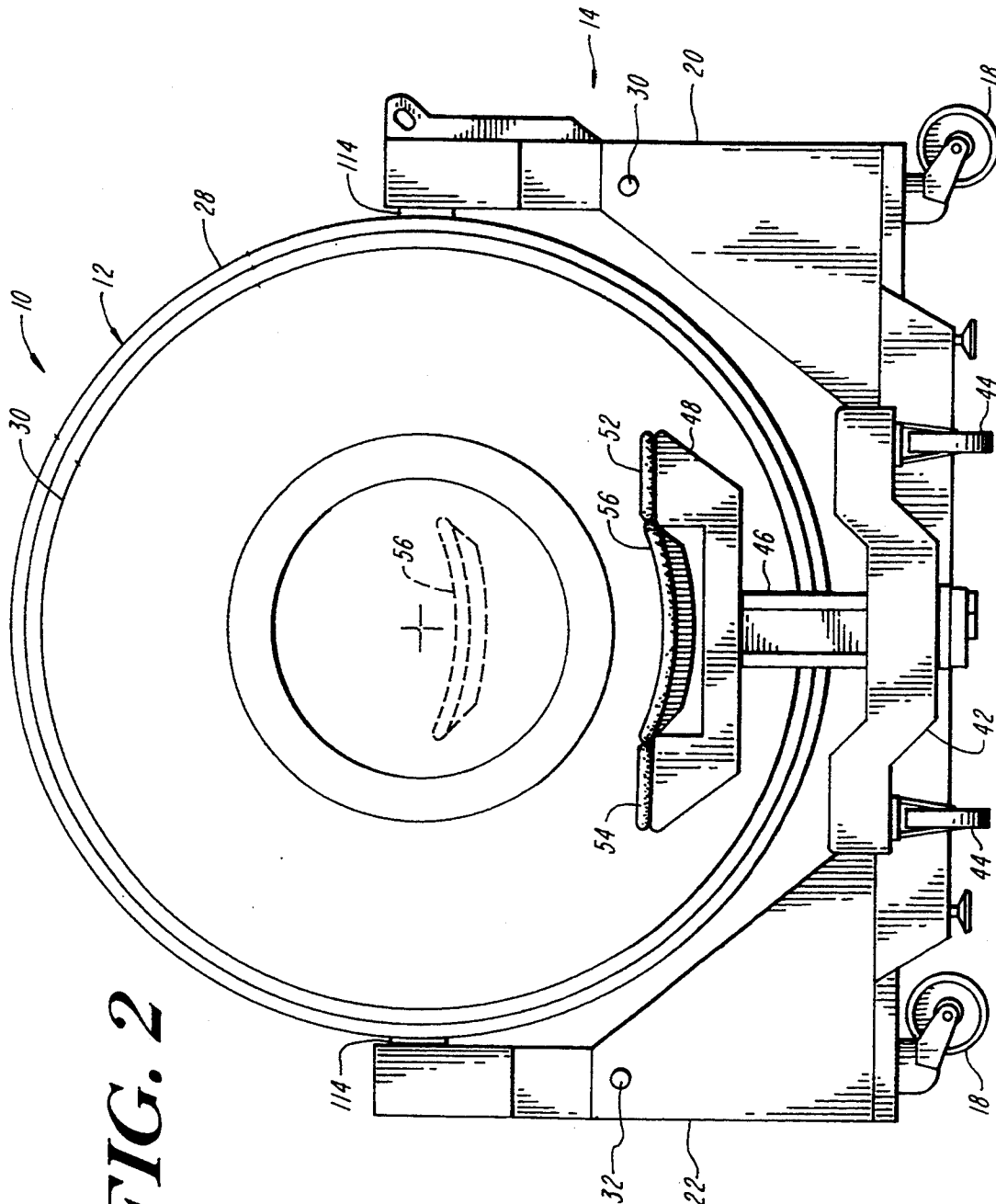


FIG. 2

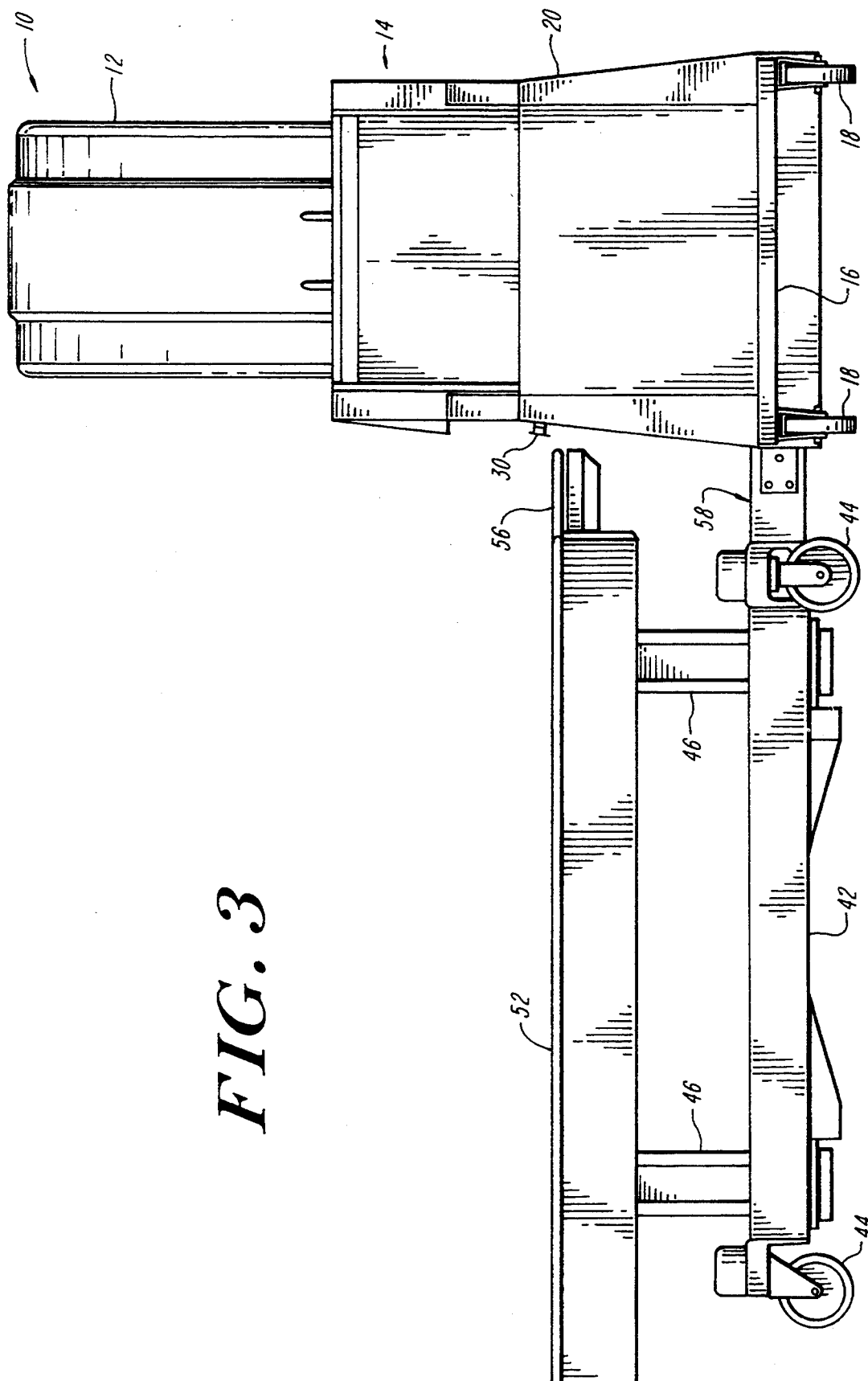
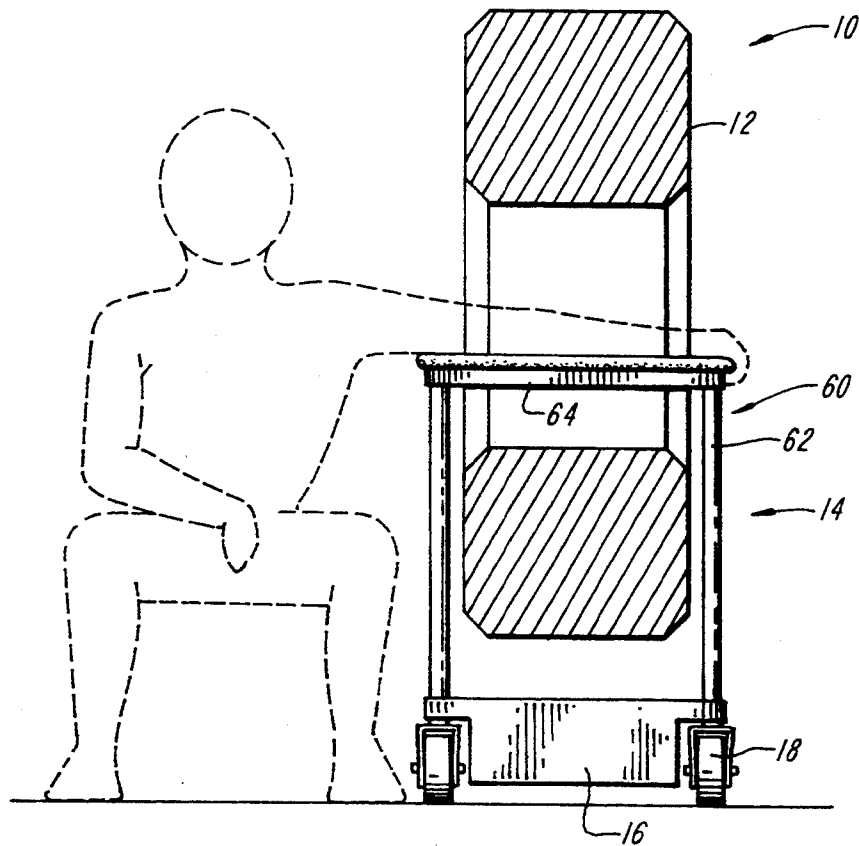


FIG. 3



**FIG. 4**

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