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# 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**

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

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

[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

[56] **References Cited**

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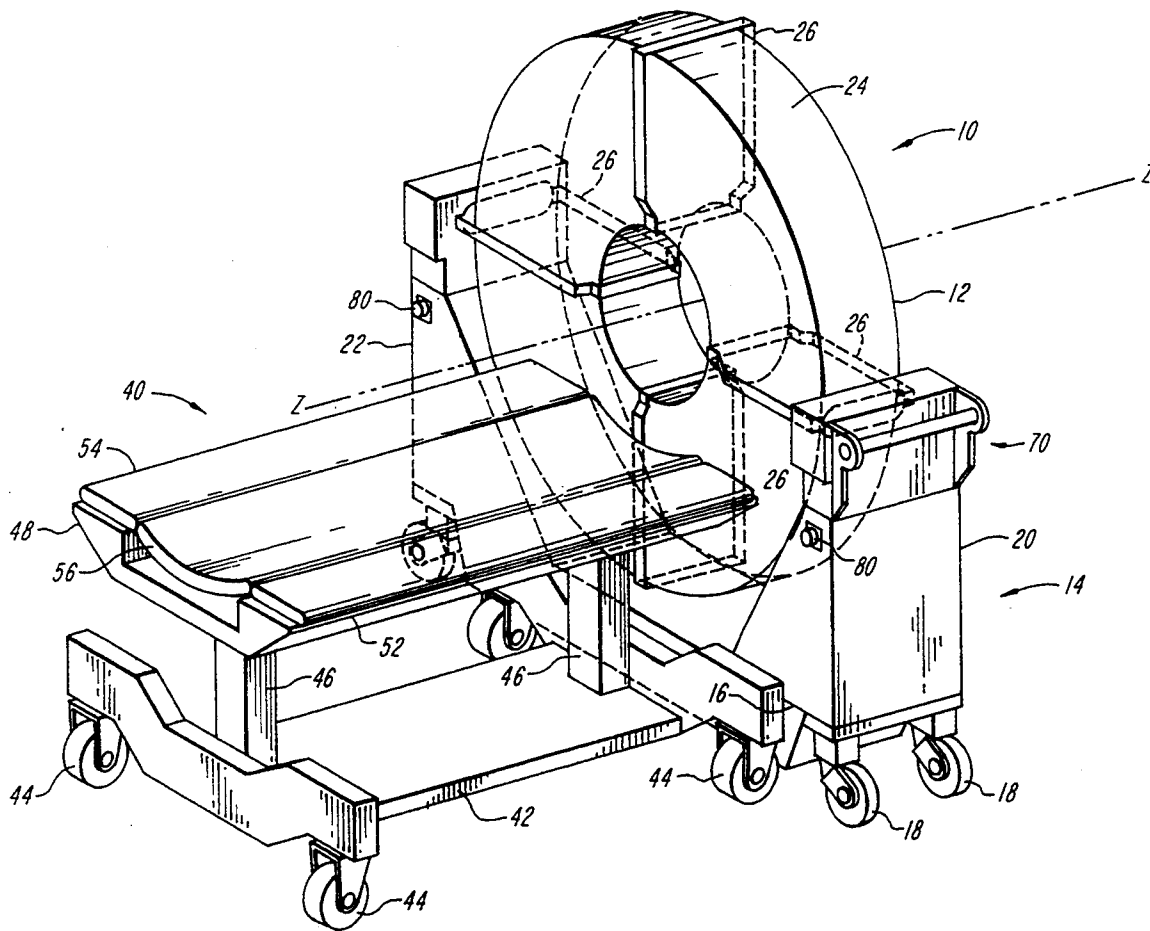
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*Assistant Examiner*—Don Wong  
*Attorney, Agent, or Firm*—Lappin & Kusmer

[57] **ABSTRACT**

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.

**32 Claims, 6 Drawing Sheets**



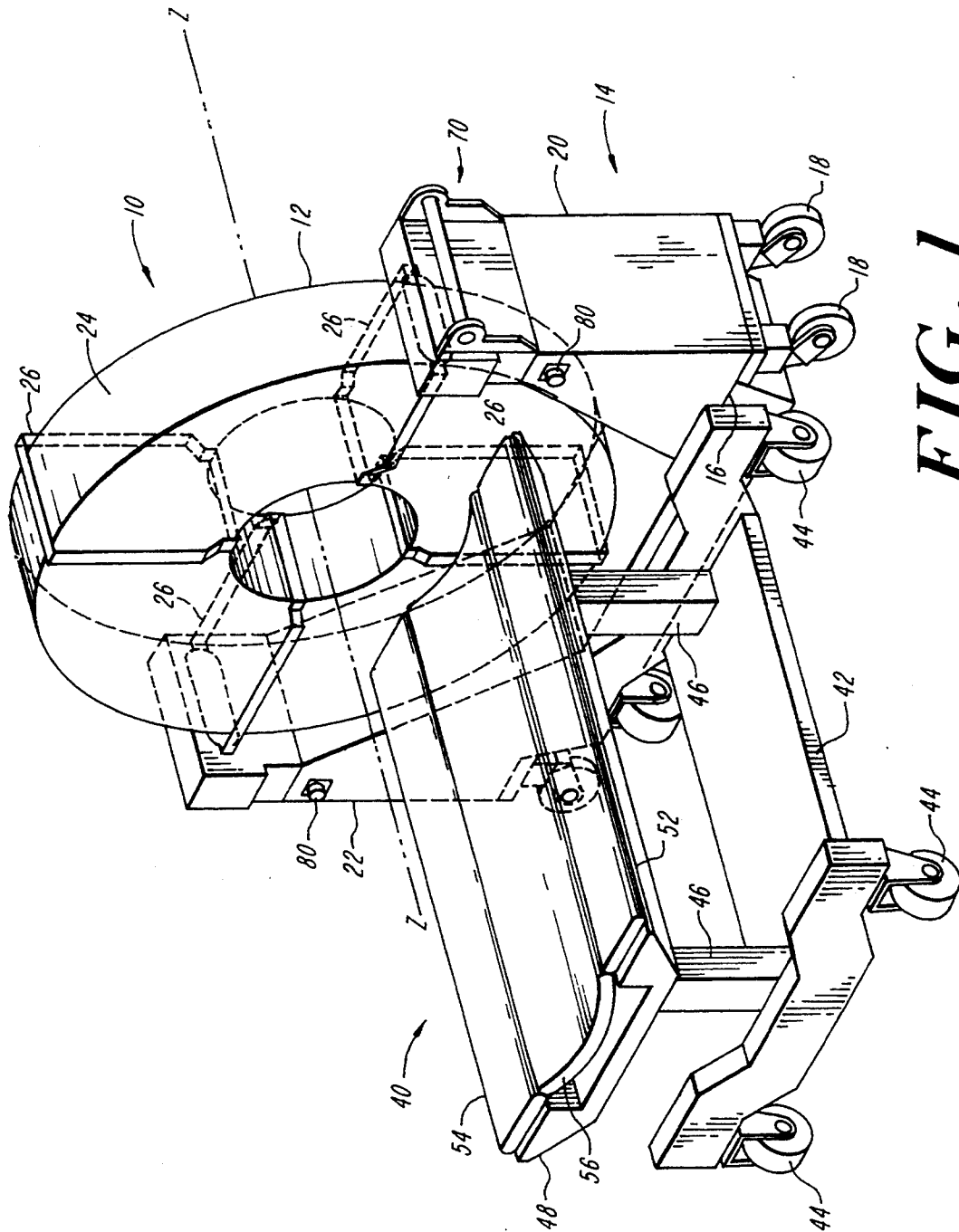


FIG. 1

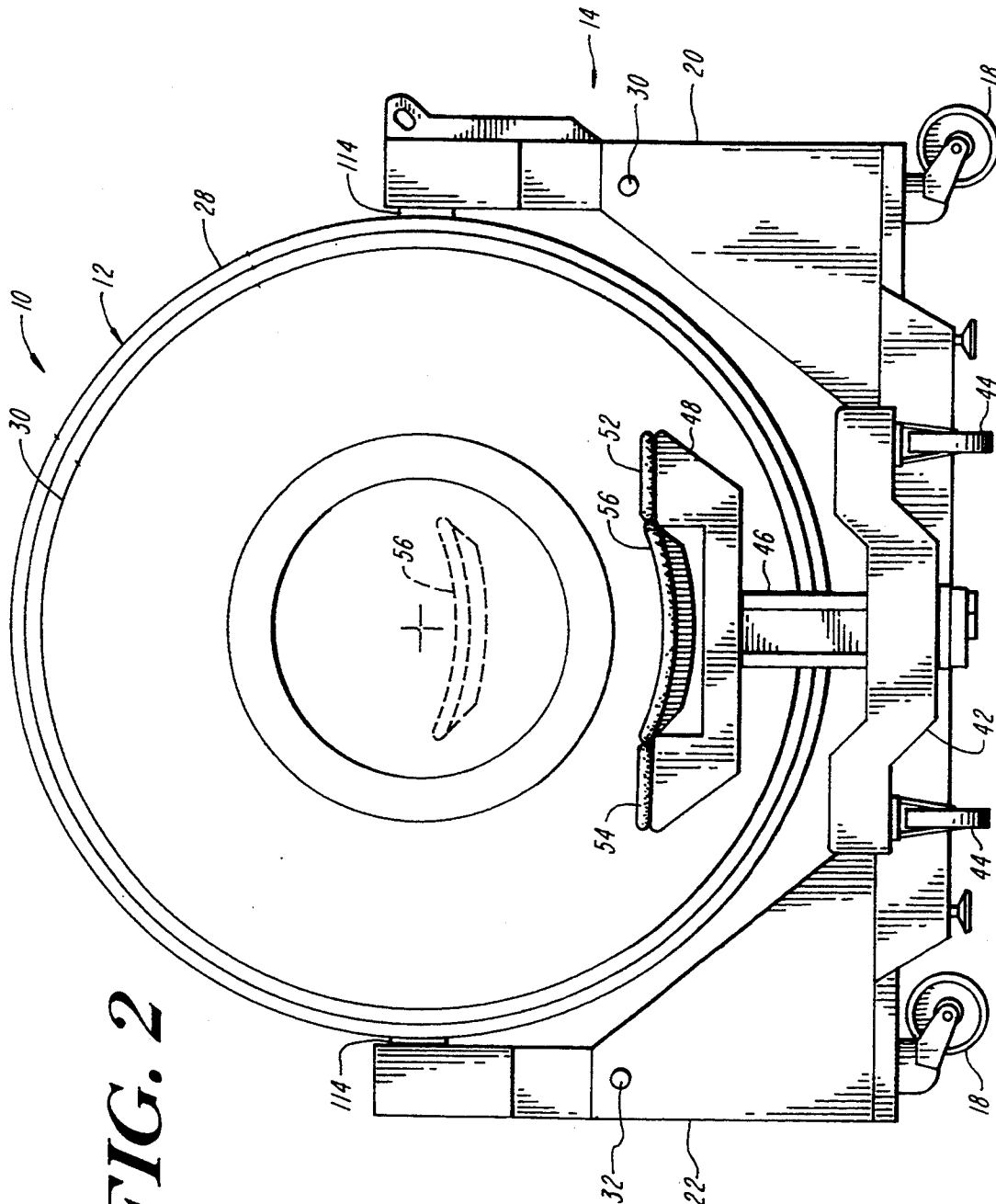


FIG. 2

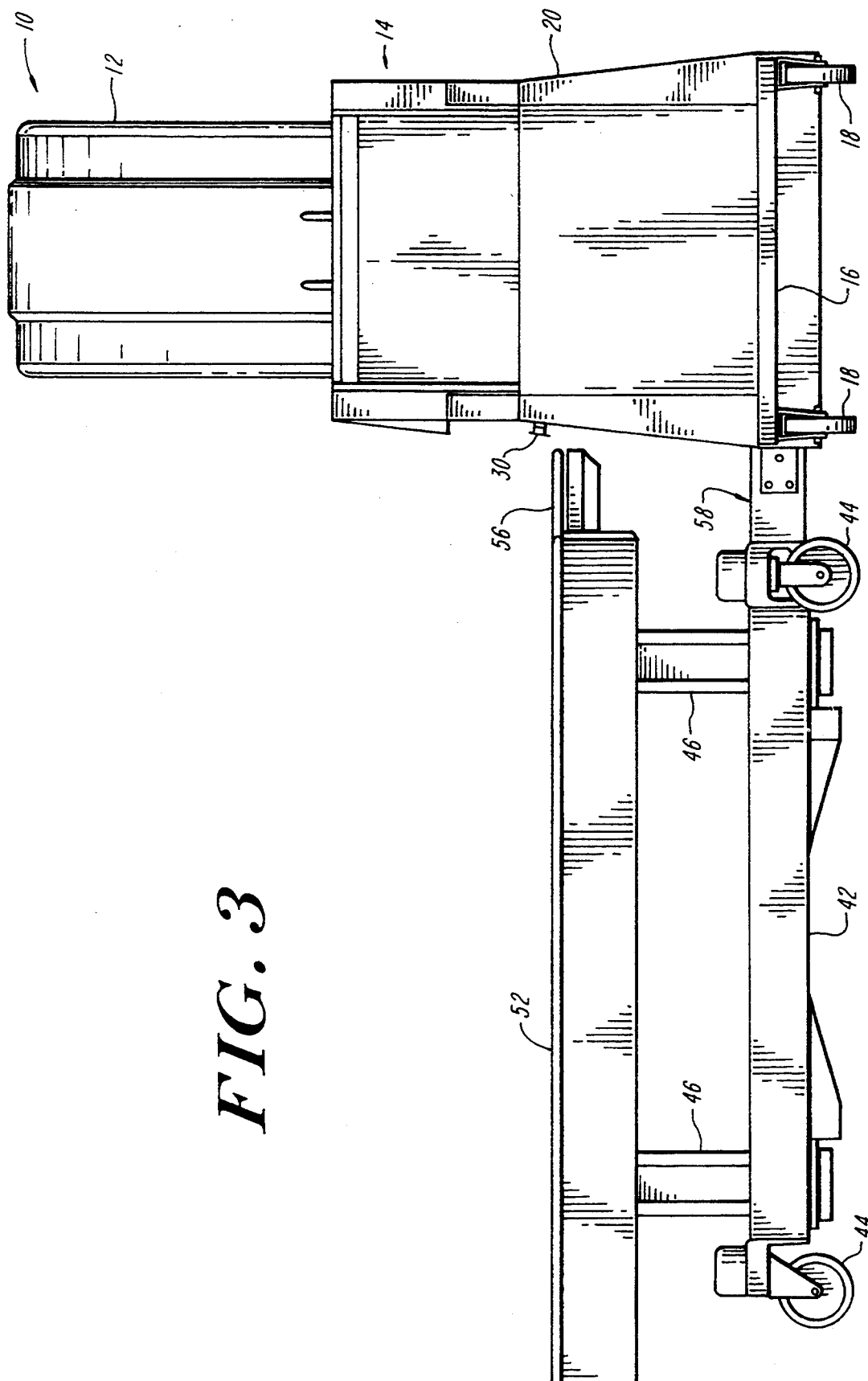
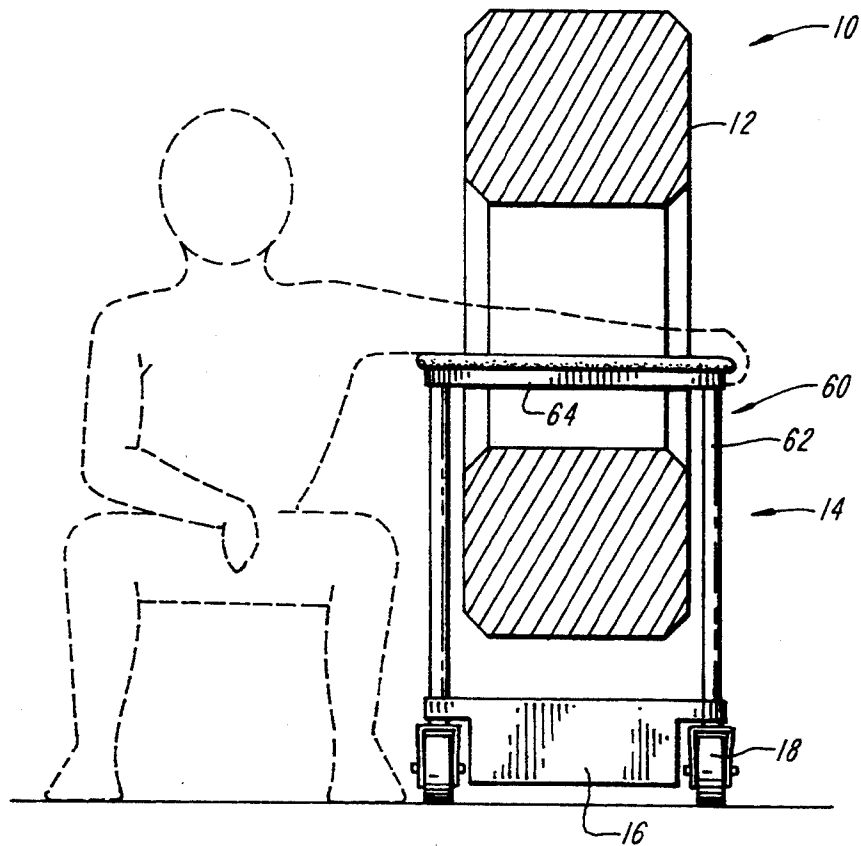


FIG. 3



**FIG. 4**

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