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United States Patent [19][11] **Patent Number:** **5,812,789****Diaz et al.**[45] **Date of Patent:** **Sep. 22, 1998**

- [54] **VIDEO AND/OR AUDIO DECOMPRESSION AND/OR COMPRESSION DEVICE THAT SHARES A MEMORY INTERFACE**
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- [73] Assignee: **STMicroelectronics, Inc.**, Carrollton, Tex.
- [21] Appl. No.: **702,911**
- [22] Filed: **Aug. 26, 1996**
- [51] **Int. Cl.⁶** **G06F 17/00**
- [52] **U.S. Cl.** **395/200.77**
- [58] **Field of Search** 395/200.77, 200.82, 395/507, 890, 729; 348/402, 407, 10

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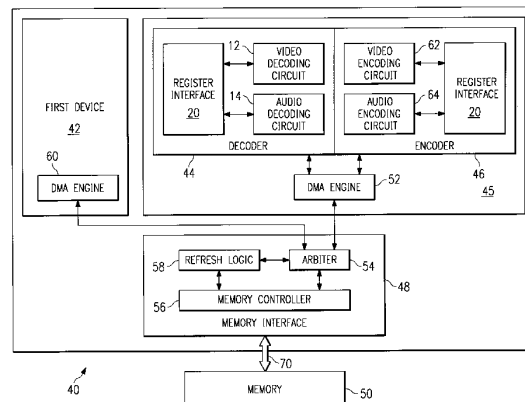
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[57] **ABSTRACT**

An electronic system that contains a first device that requires a memory interface and video and/or audio decompression and/or compression device that shares a memory interface and memory with the first device while still permitting the video and/or audio decompression and/or compression device to operate in real time is disclosed.

33 Claims, 5 Drawing Sheets

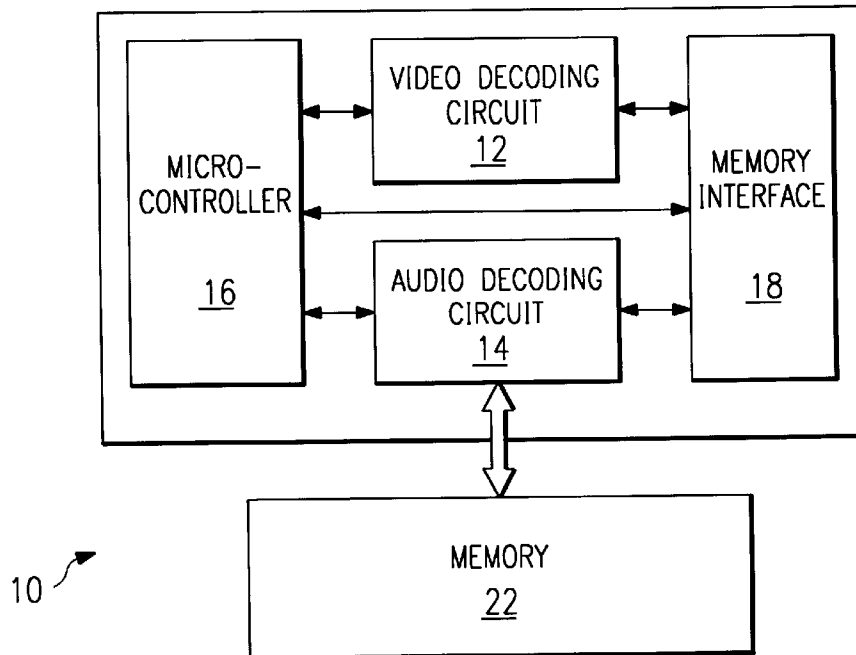


FIG. 1a
(PRIOR ART)

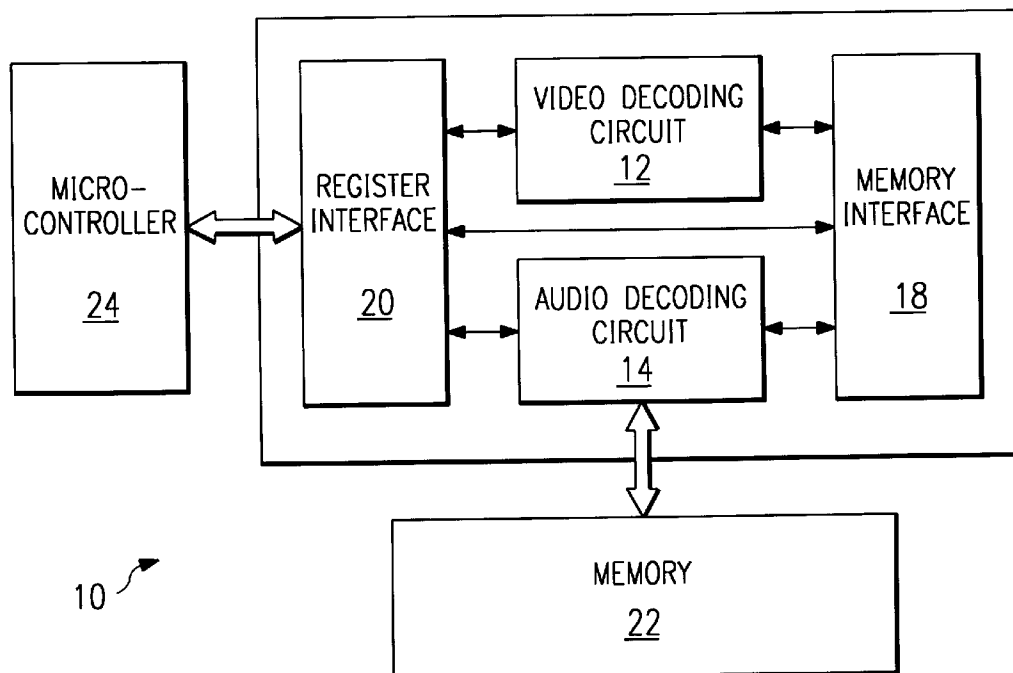
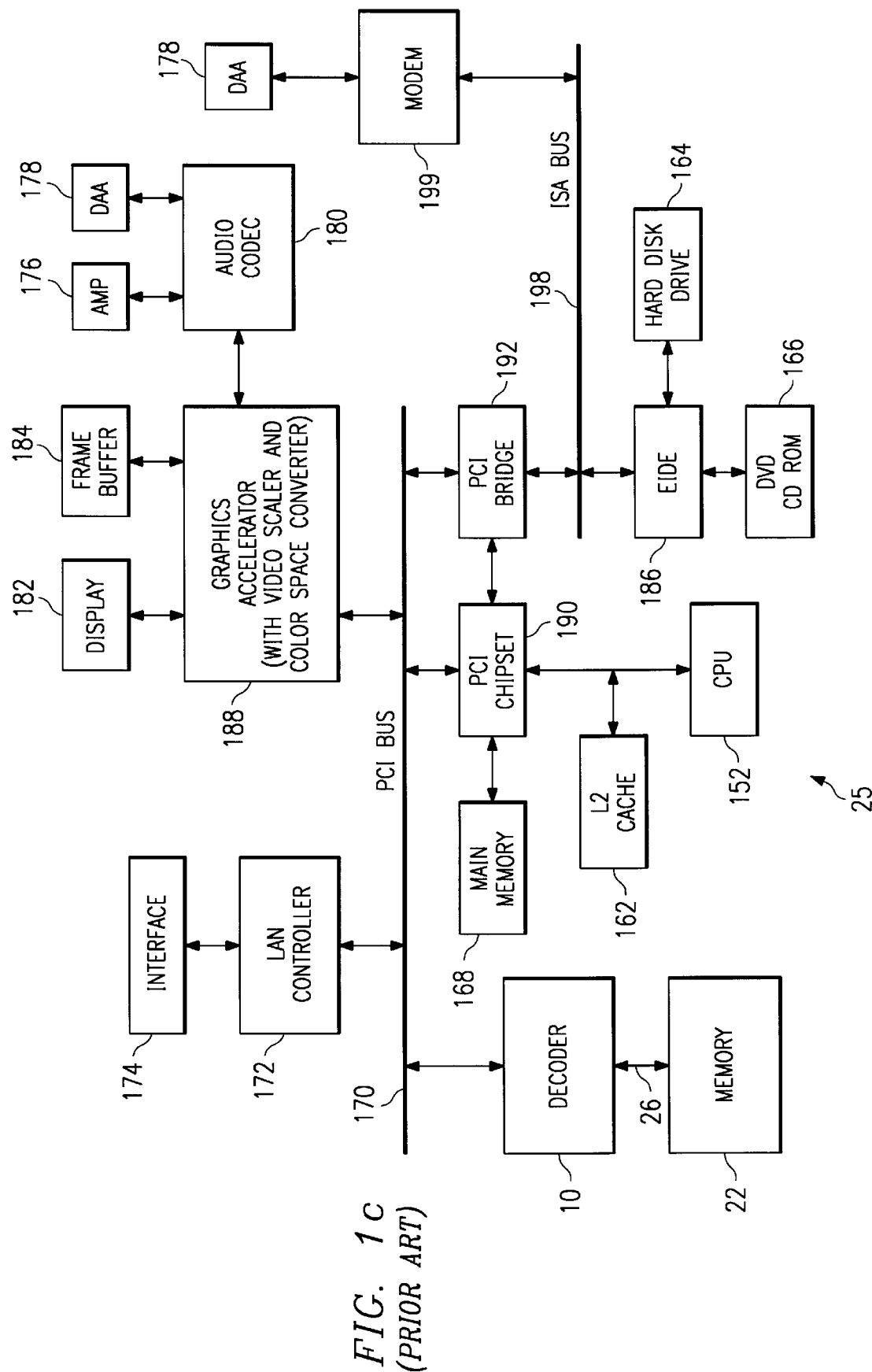


FIG. 1b
(PRIOR ART)



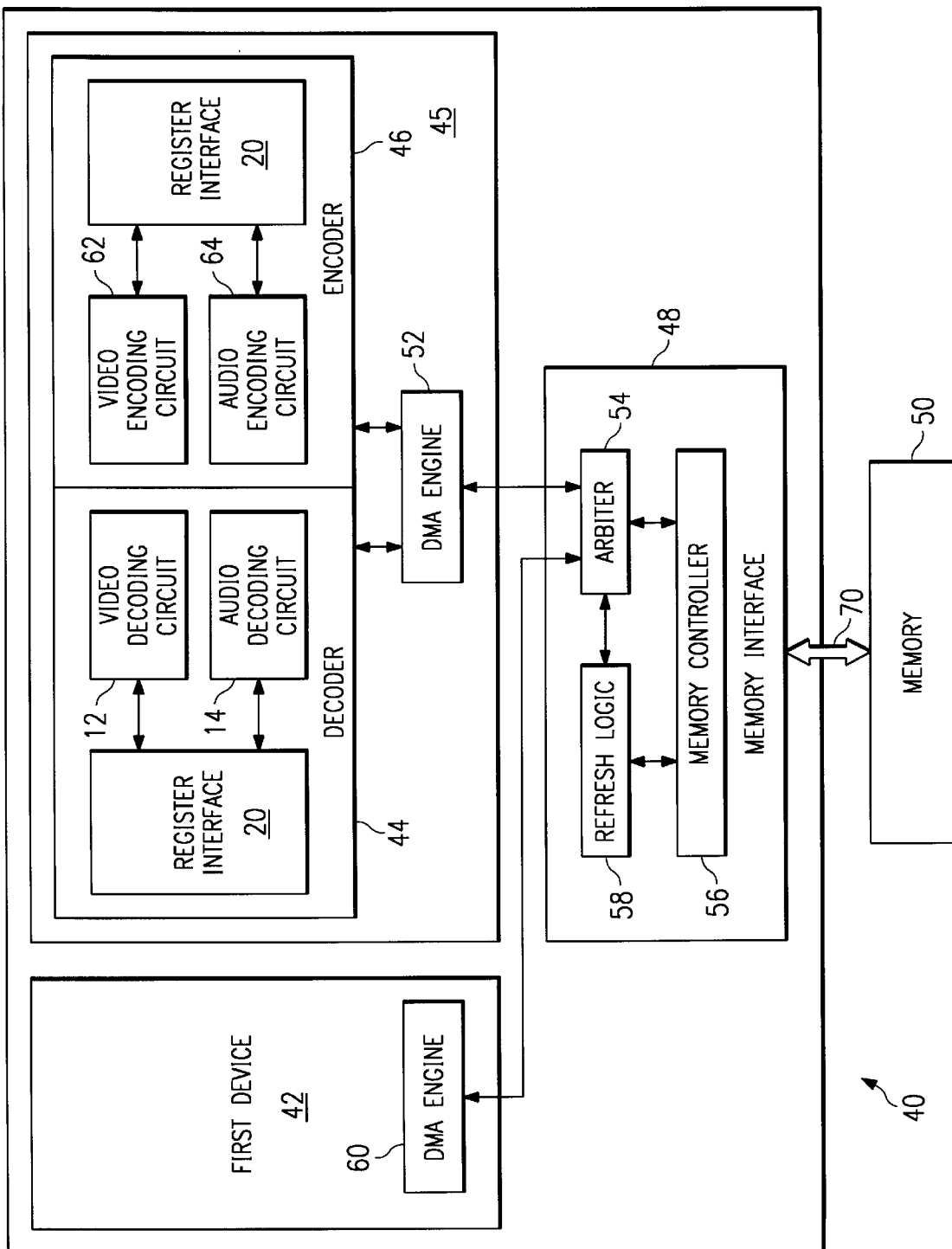
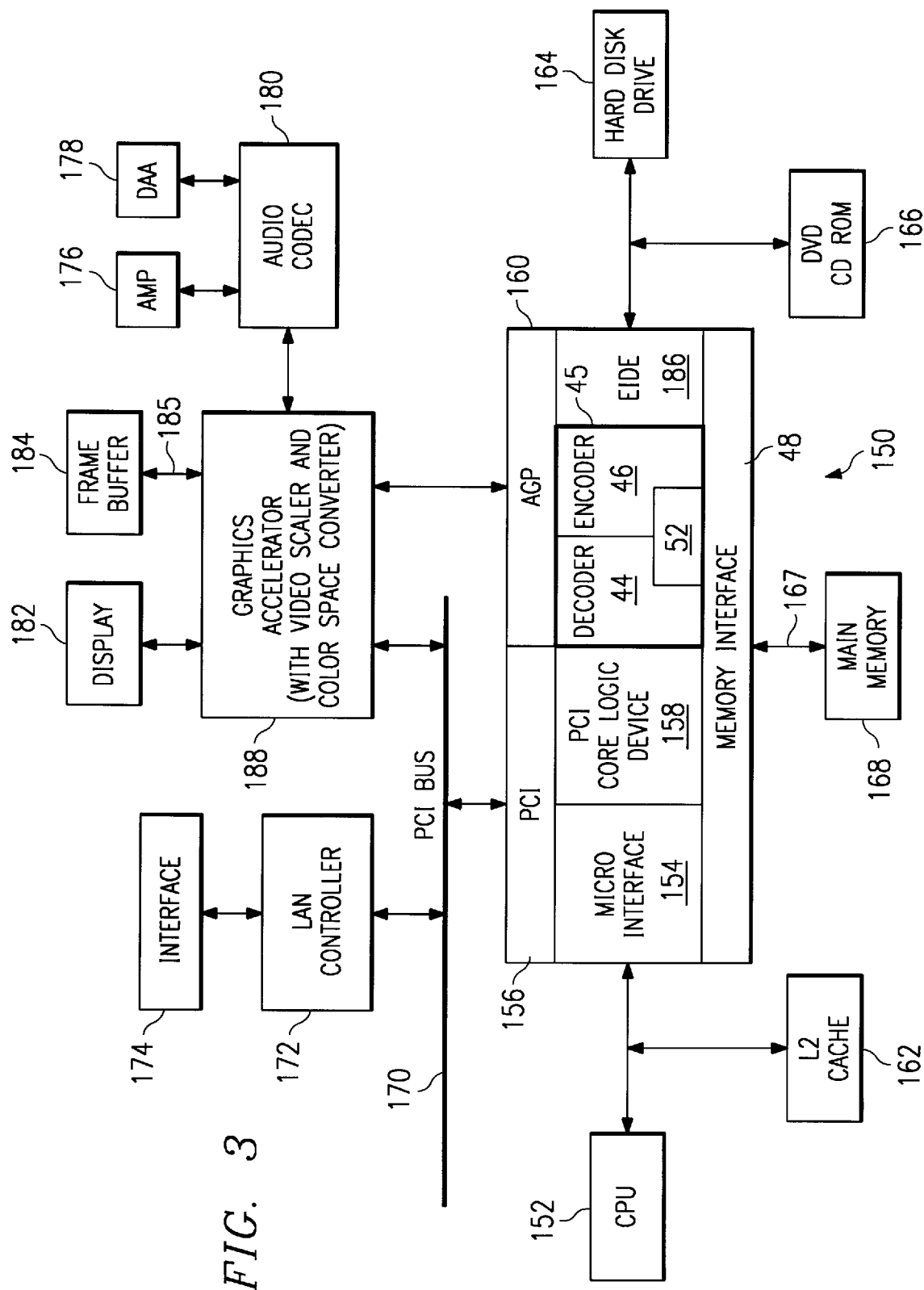


FIG. 2



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