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United States Patent [19] Diaz et al.

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[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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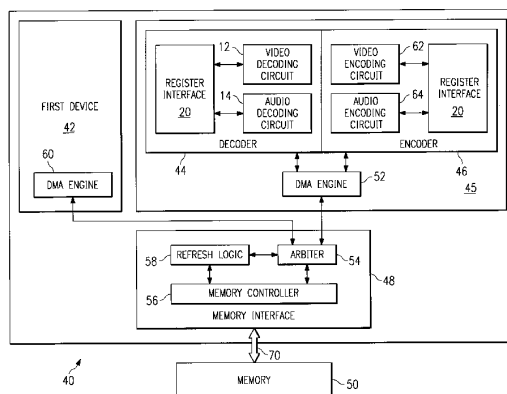
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[57] ABSTRACT

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



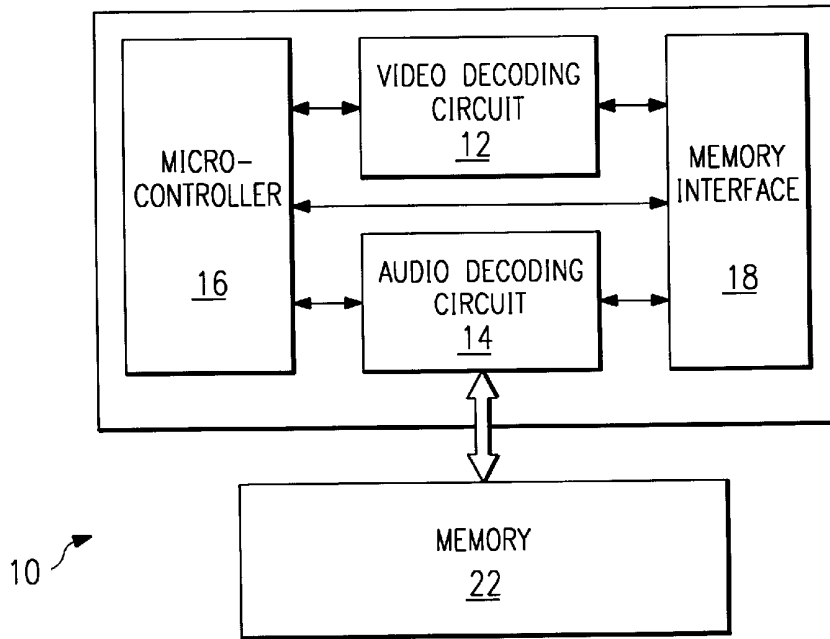


FIG. 1a
(PRIOR ART)

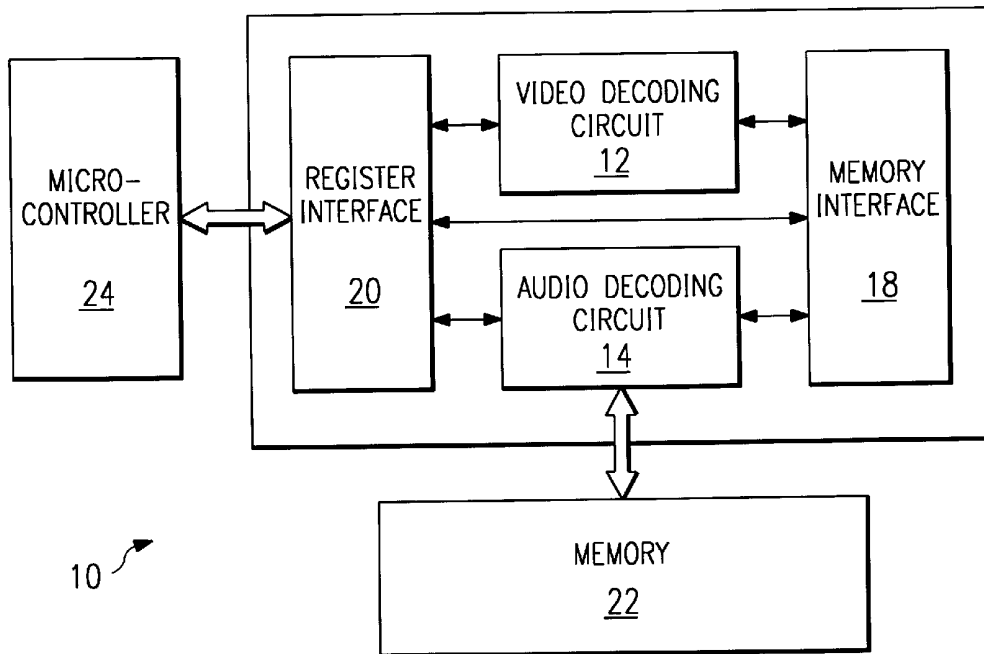


FIG. 1b
(PRIOR ART)

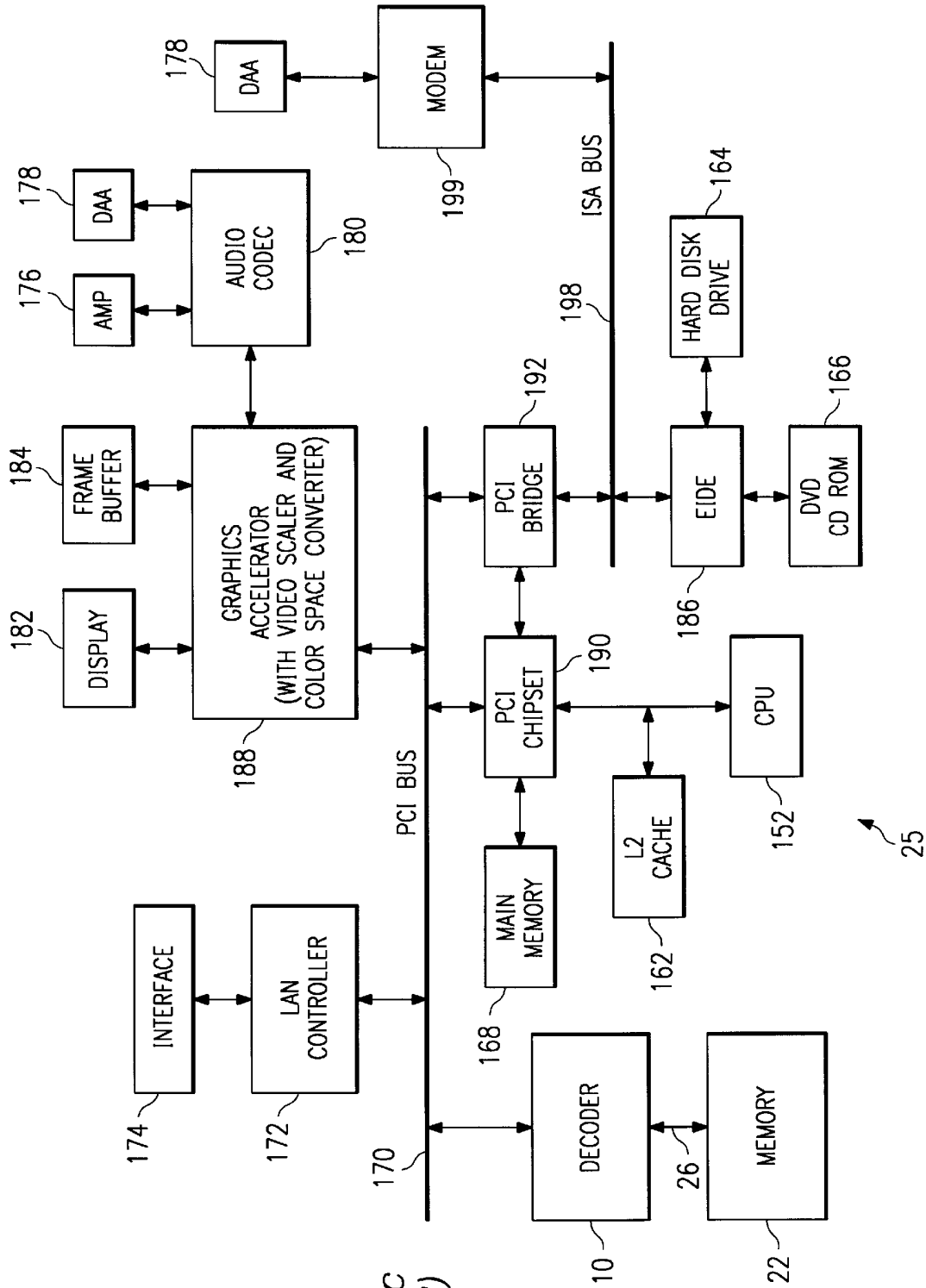


FIG. 1C
(PRIOR ART)

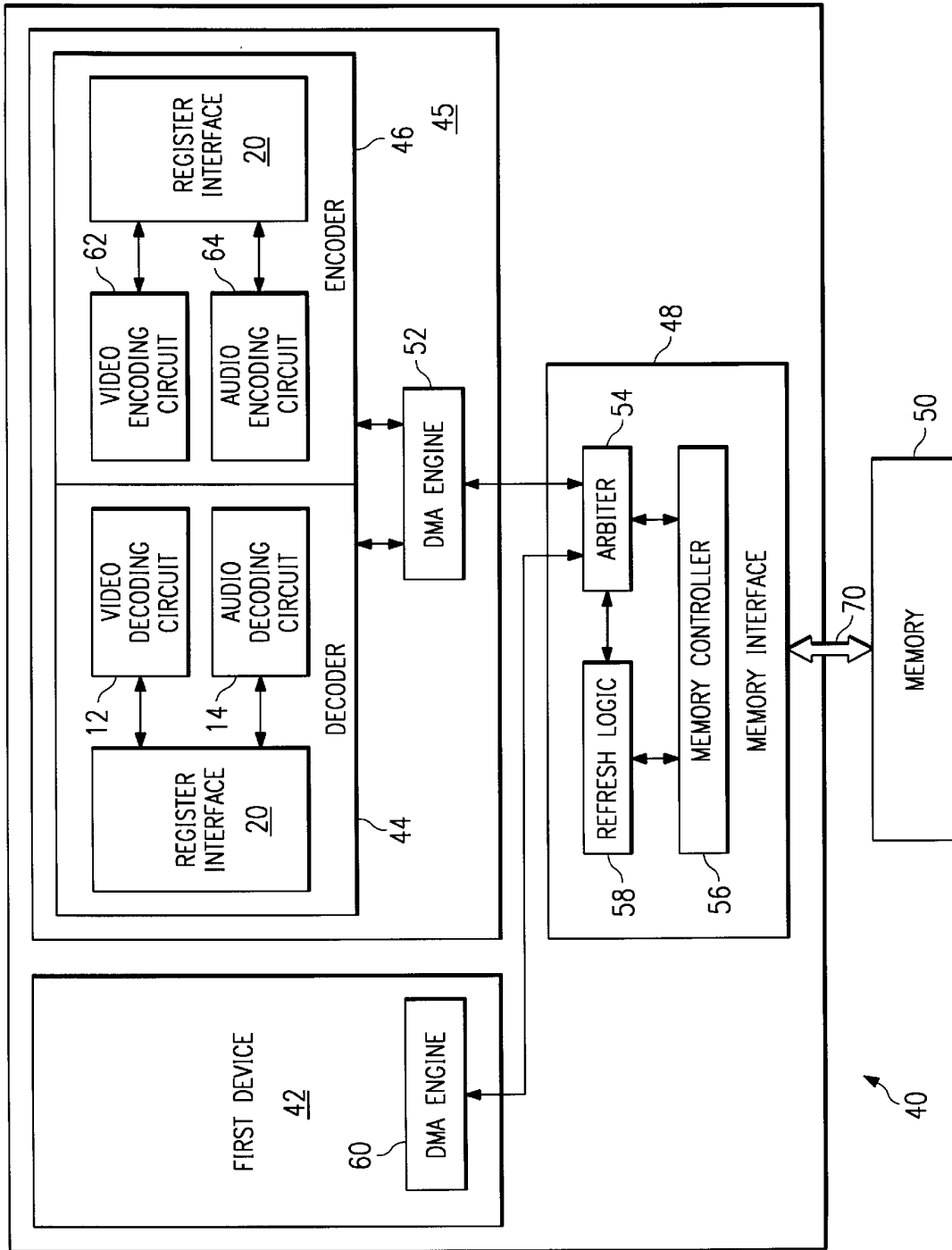


FIG. 2

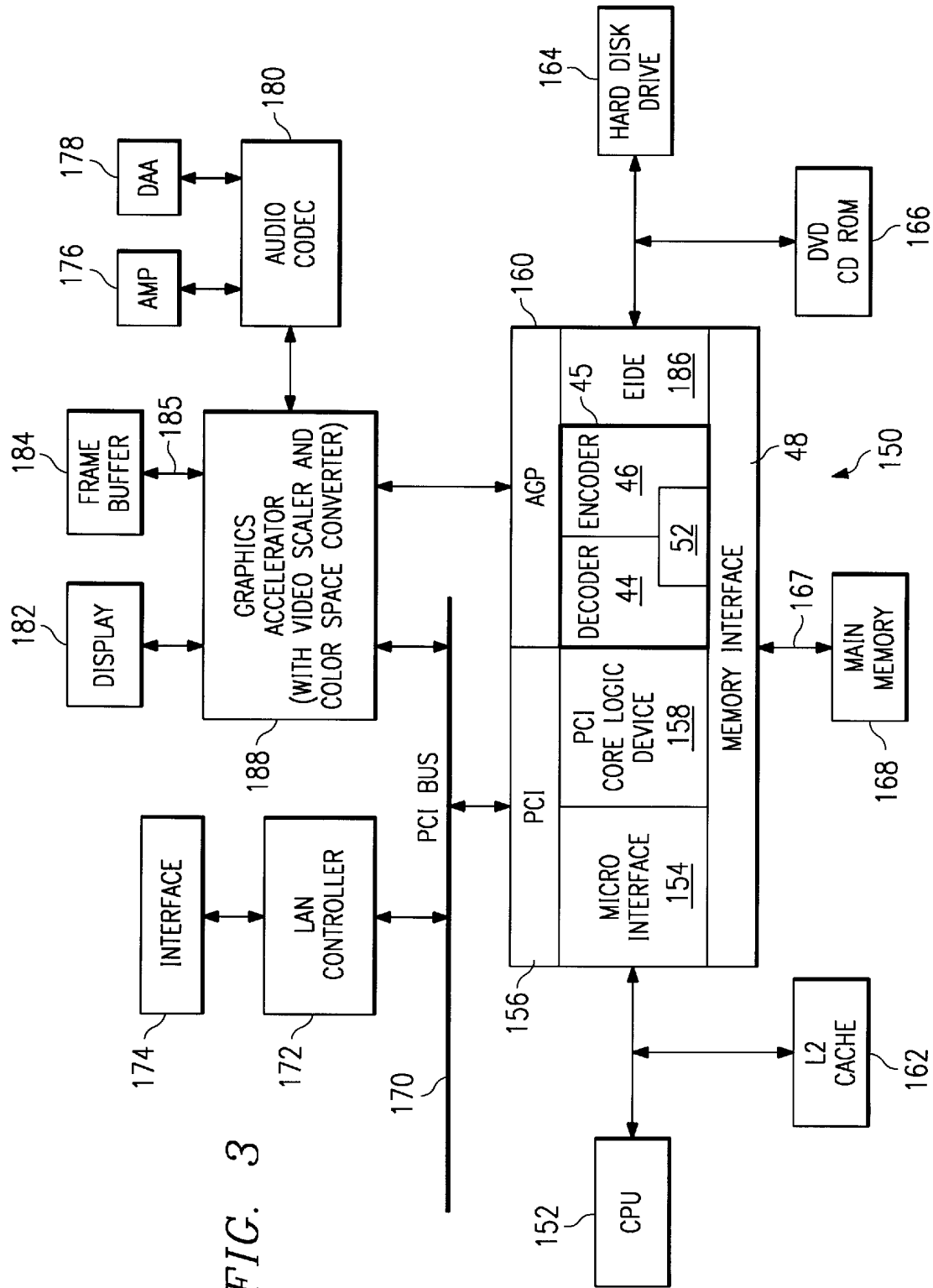


FIG. 3

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