[54] **COMPUTER SYSTEM HAVING AN IMPROVED DIGITAL AND ANALOG CONFIGURATION**

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[73] Assignee: **Advanced Micro Devices, Inc.**, Sunnyvale, Calif.

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[22] Filed: **Sep. 11, 1995**

[51] Int. Cl.^{6} **G06F 15/00**

[52] U.S. Cl. **395/800.32**; 364/228.6; 364/DIG. 1

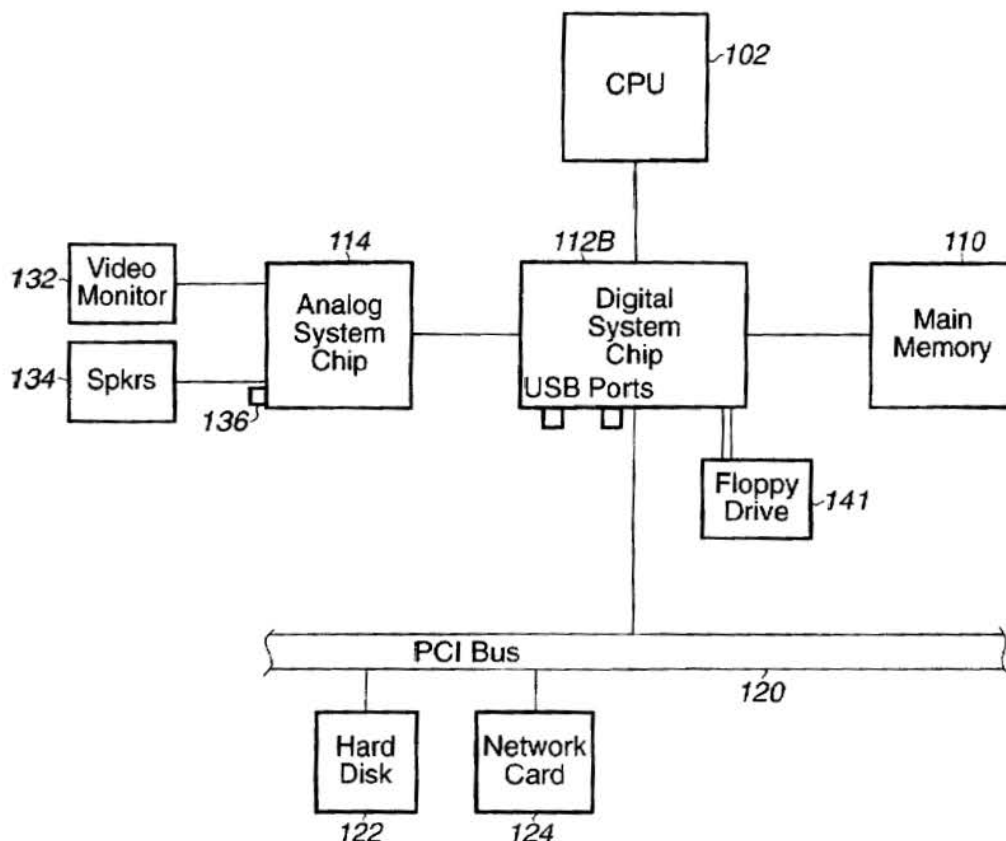[58] **Field of Search** .... 395/800, 800.32, 395/800.35, 800.01; 364/489, 228.6, DIG. 1

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Attorney, Agent, or Firm—Conley. Rose & Tayon; Jeffrey C. Hood

[57] **ABSTRACT**

A computer system including separate digital and analog system chips which provides increased performance over current computer architectures. The computer system of the present invention includes a digital system chip which performs various digital functions, including multimedia functions and chipset functions, and a separate analog chip which performs analog functions, including digital to analog and analog to digital conversions. Thus the present invention optimizes silicon use and design by splitting up digital and analog functions on separate chips. The system of the present invention also separates digital noise from analog noise, allowing a higher degree of integration while increasing stability.

32 Claims, 11 Drawing Sheets

242
General
Purpose
DSP

244
General
Purpose
DSP

246
General
Purpose
DSP

207
Microcode
RAM/
ROM

208
Power
Management
Logic

212
Digital
A/D
& D/A

222
USB
Interface

224
Serial/
Parrallel
Port
Interface
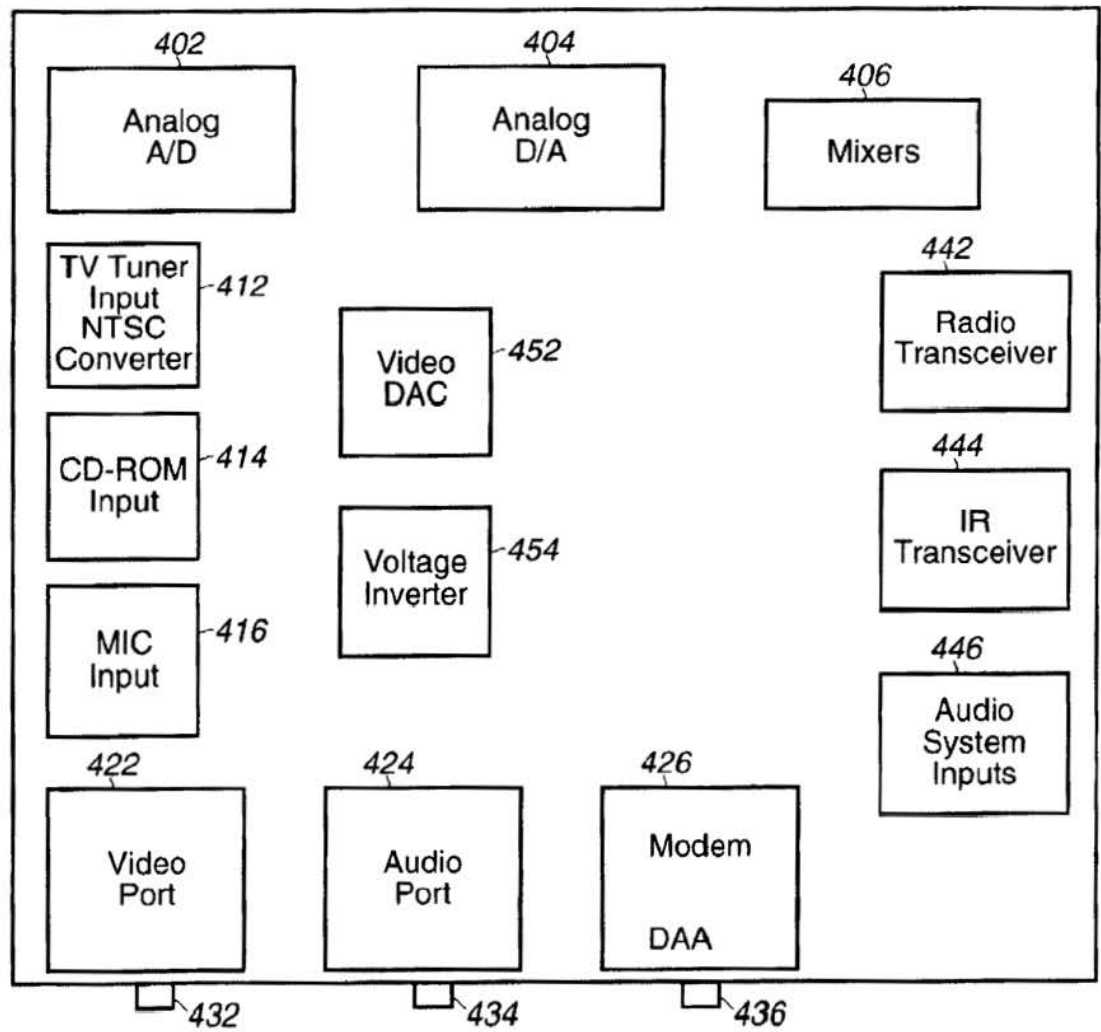
226
Floppy
Controller
Interface

228
Peripheral
Function
Logic
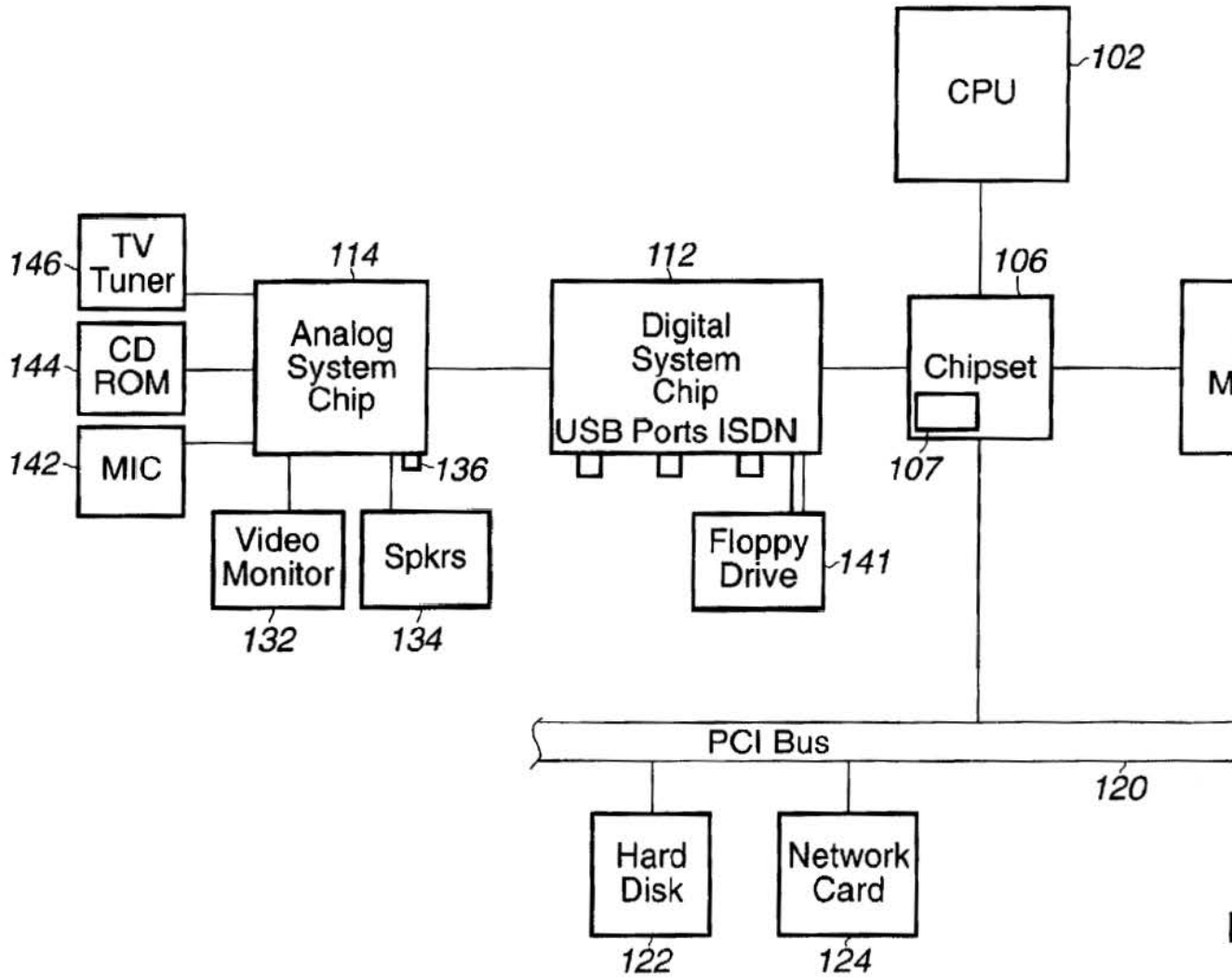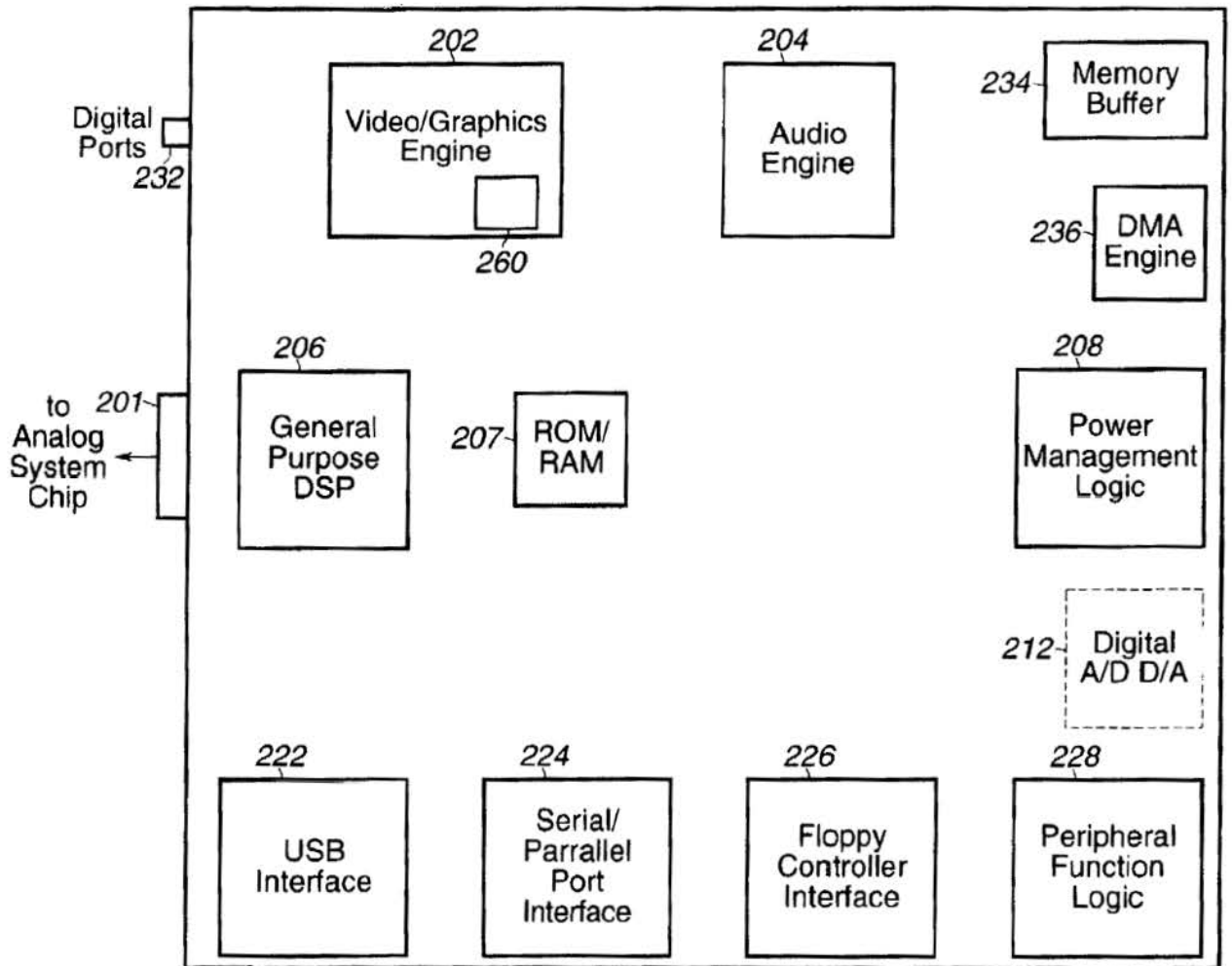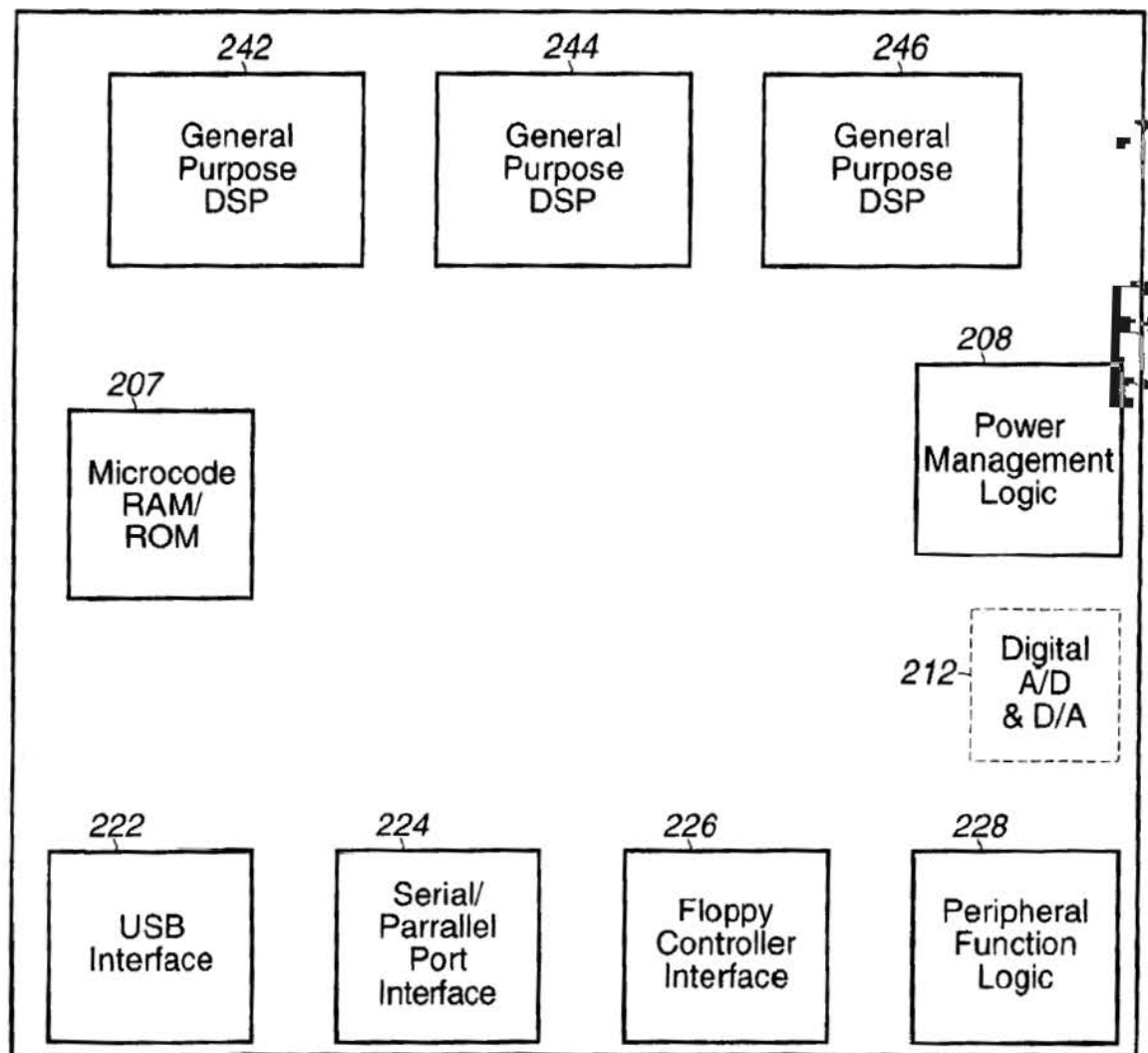
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