EXHIBIT F

US007401783B2

(12) **United States Patent**   (10) **Patent No.:**   **US 7,401,783 B2**

Pryor   (45) **Date of Patent:**   **Jul. 22, 2008**

(54) **CAMERA BASED MAN MACHINE INTERFACES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/893,534**

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Related U.S. Application Data

(63) Continuation of application No. 09/612,225, filed on Jul. 7, 2000, now Pat. No. 6,766,036.

(60) Provisional application No. 60/142,777, filed on Jul. 8, 1999.

(51) **Int. Cl.**
     A63F 3/00   (2006.01)
(52) **U.S. Cl.** **273/237**; 463/1; 273/274
(58) **Field of Classification Search** 273/237, 273/454, 274, 309; 463/1, 40, 42, 43
     See application file for complete search history.

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(57)   **ABSTRACT**

Disclosed herein are new forms of computer inputs particularly using TV Cameras, and providing affordable methods and apparatus for data communication with respect to people and computers using optically inputted information from specialized datum's on objects and/or natural features of objects. Particular embodiments capable of fast and reliable acquisition of features and tracking of motion are disclosed, together with numerous applications in various fields of endeavor.

17 Claims, 22 Drawing Sheets
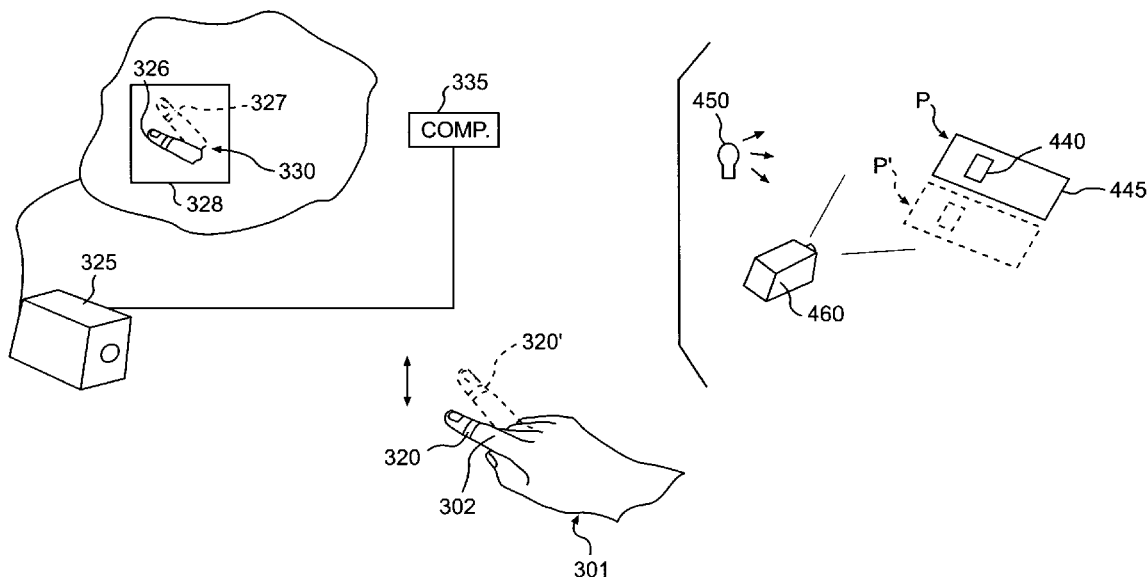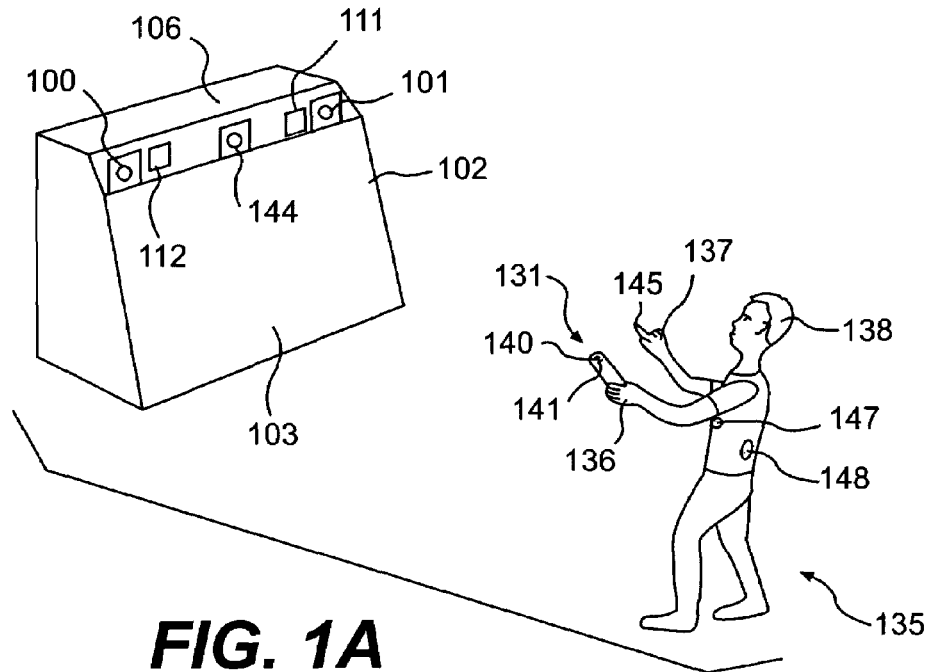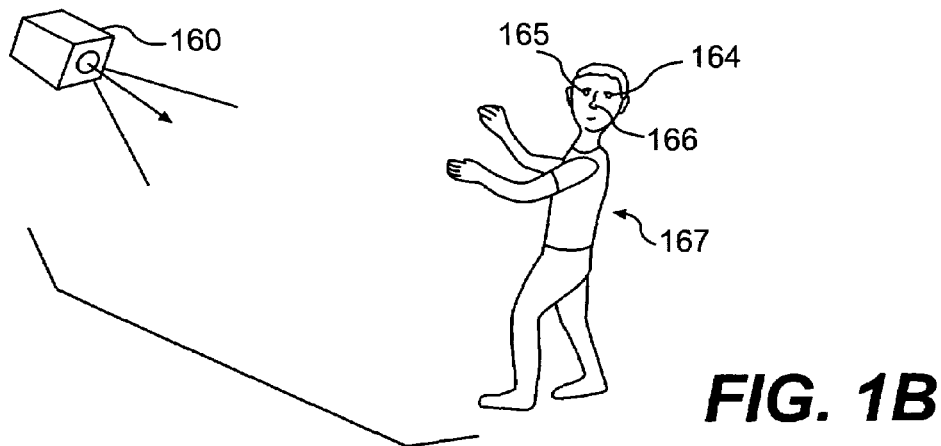
FIG. 1A

FIG. 1B
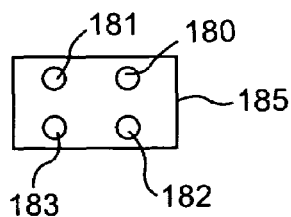
FIG. 1C
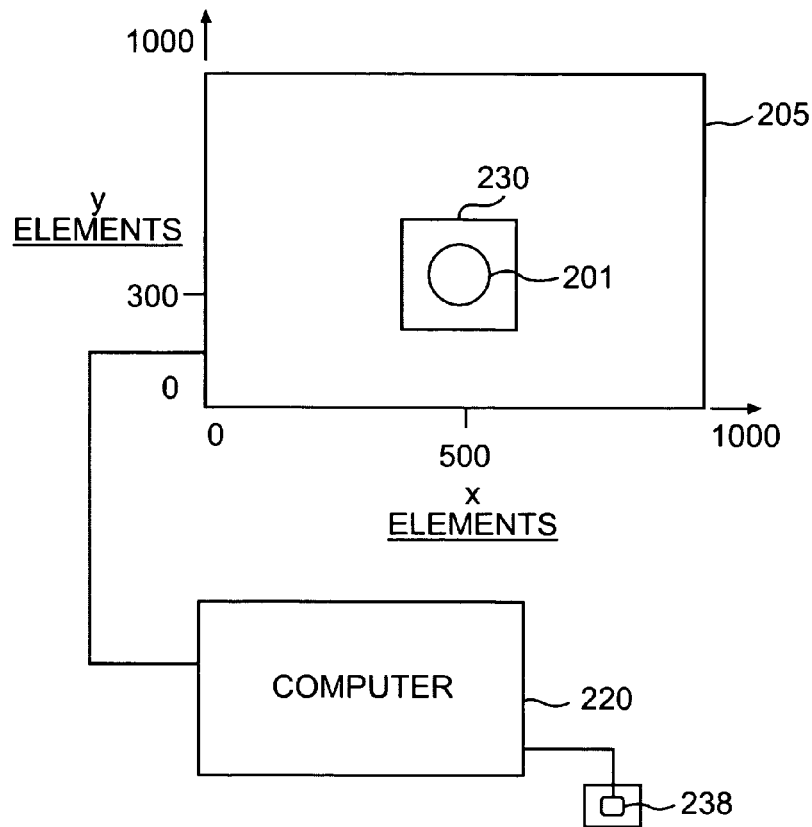
FIG. 2A
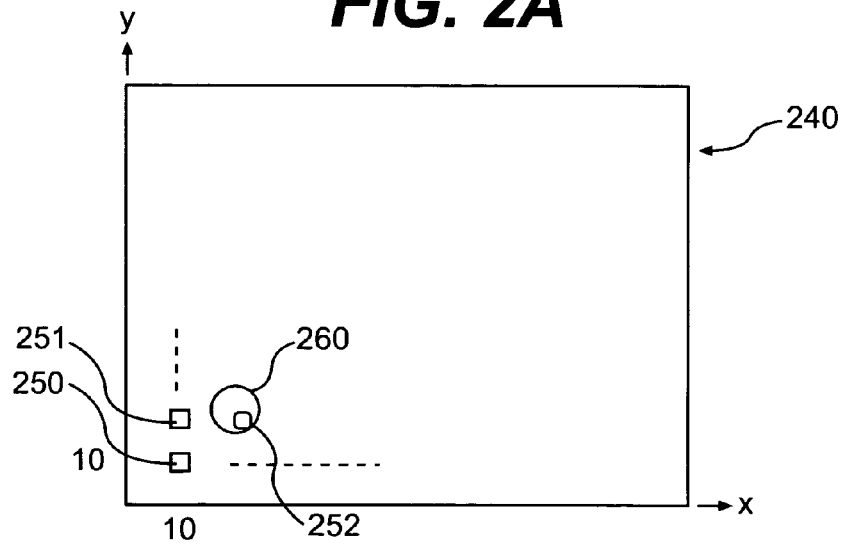
FIG. 2B

FIG. 2C

DOCKET ALARM
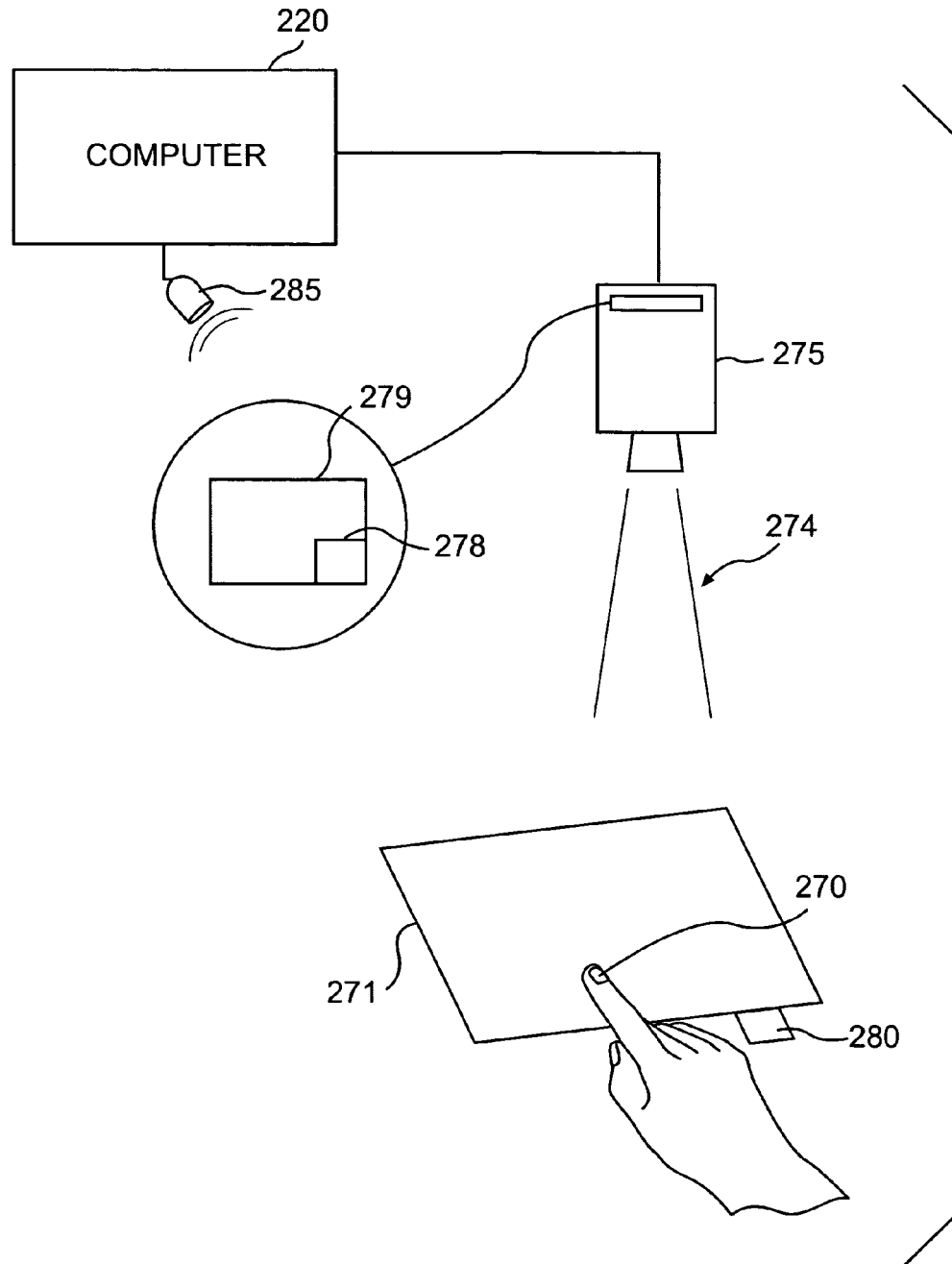
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