Exhibit Q

(12) **United States Patent**
Pryor

(10) **Patent No.:** US 7,933,431 B2
(45) **Date of Patent:** Apr. 26, 2011

(54) **CAMERA BASED SENSING IN HANDHELD, MOBILE, GAMING, OR OTHER DEVICES**

(76) Inventor: **Timothy R. Pryor**, Tecumseh (CA)

(*) 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.: **12/834,281**

(22) Filed: **Jul. 12, 2010**

(65) **Prior Publication Data**

US 2010/0277412 A1 Nov. 4, 2010

Related U.S. Application Data

(63) Continuation of application No. 11/980,710, filed on Oct. 31, 2007, now Pat. No. 7,756,297, which is a continuation of application No. 10/893,534, filed on Jul. 19, 2004, now Pat. No. 7,401,783, which is a 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.**
G06K 9/00 (2006.01)

(52) **U.S. Cl.** **382/103**; 382/104; 348/207.1

(58) **Field of Classification Search** 382/103, 382/104; 348/207.1
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

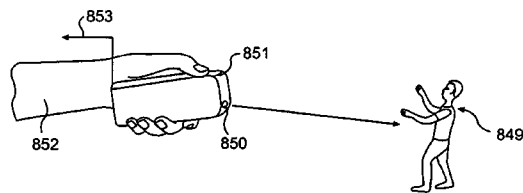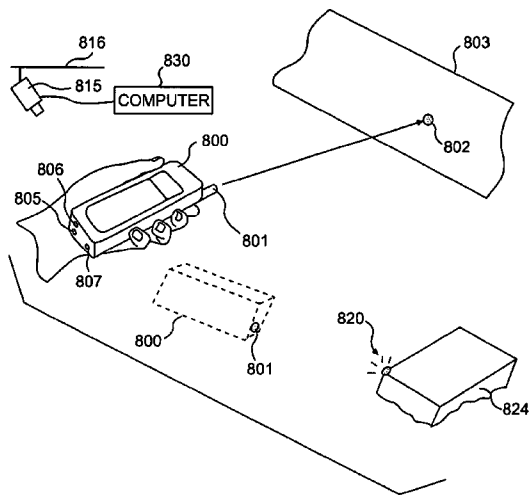|				
5,878,174 A *	3/1999	Stewart et al.	....	382/293
6,342,917 B1 *	1/2002	Amenta	....	348/207.1
6,453,180 B1 *	9/2002	Endoh et al.	....	455/567
6,597,817 B1 *	7/2003	Silverbrook	....	382/289

* cited by examiner
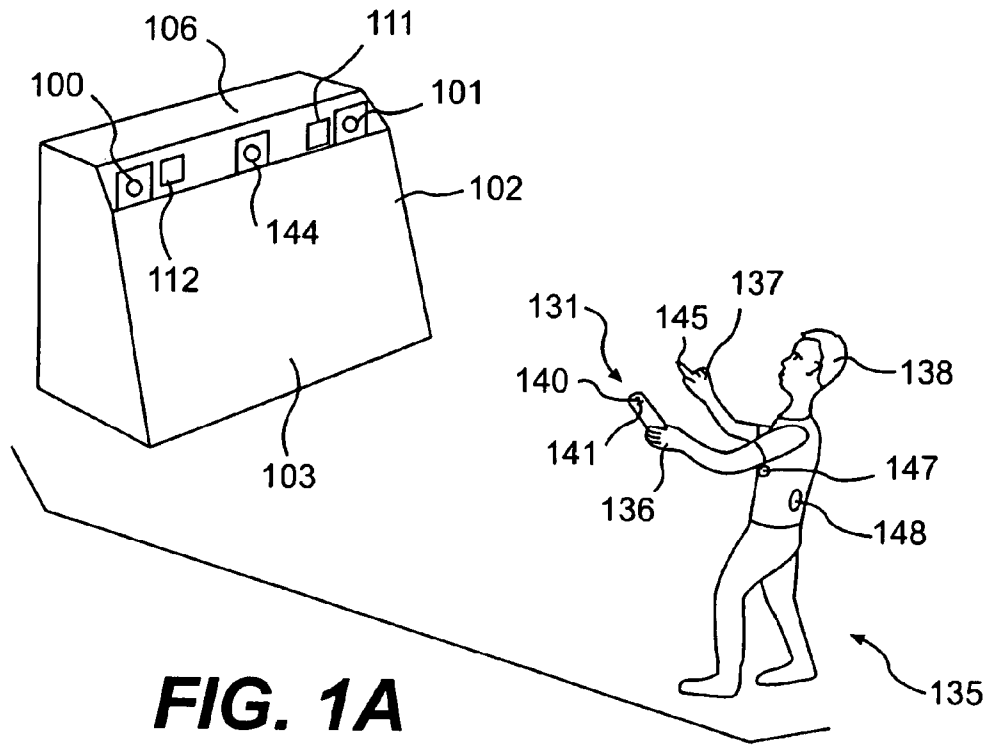
Primary Examiner — Tom Y Lu
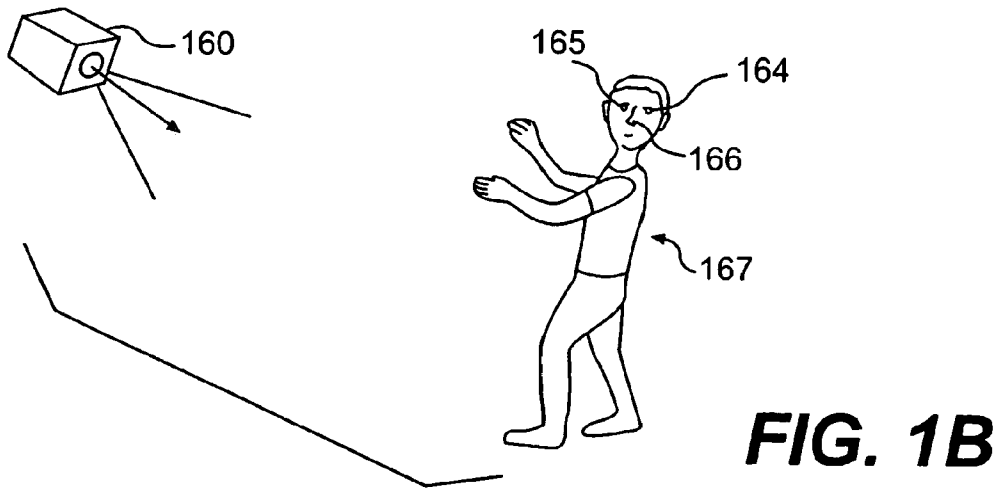(74) *Attorney, Agent, or Firm* — Warner Norcross & Judd LLP

(57) **ABSTRACT**

Method and apparatus are disclosed to enable rapid TV camera and computer based sensing in many practical applications, including, but not limited to, handheld devices, cars, and video games. Several unique forms of social video games are disclosed.
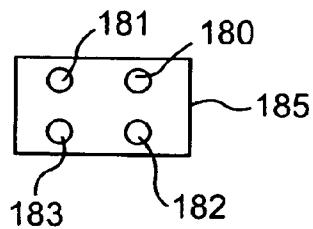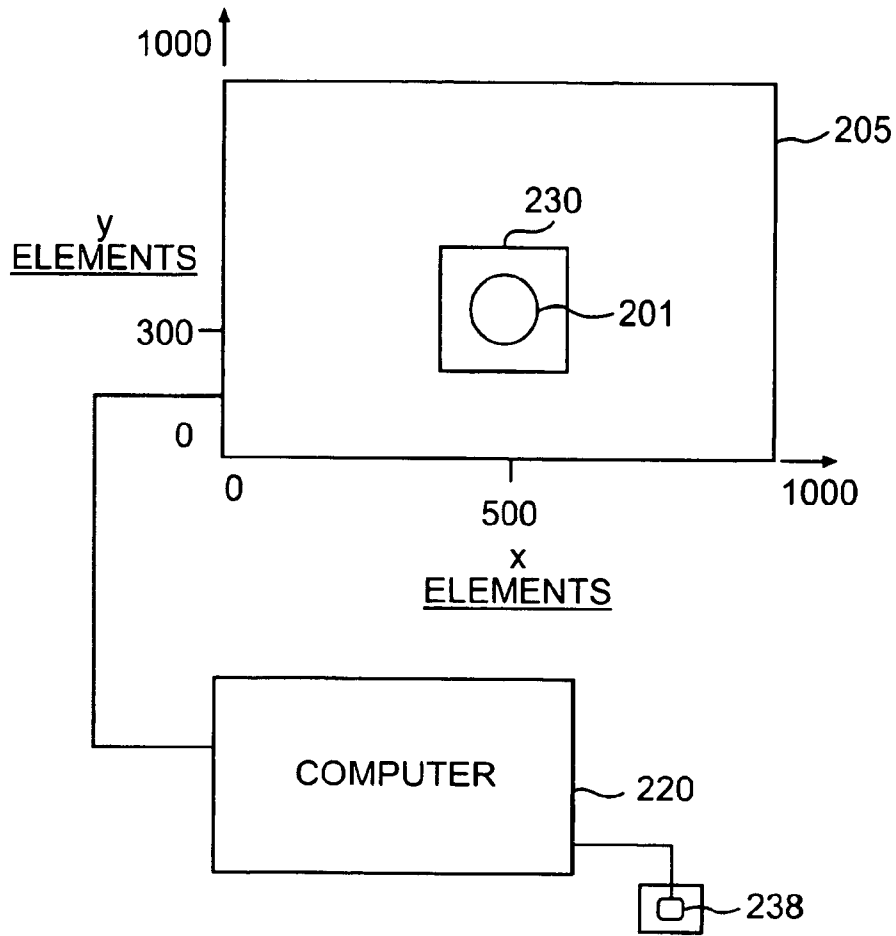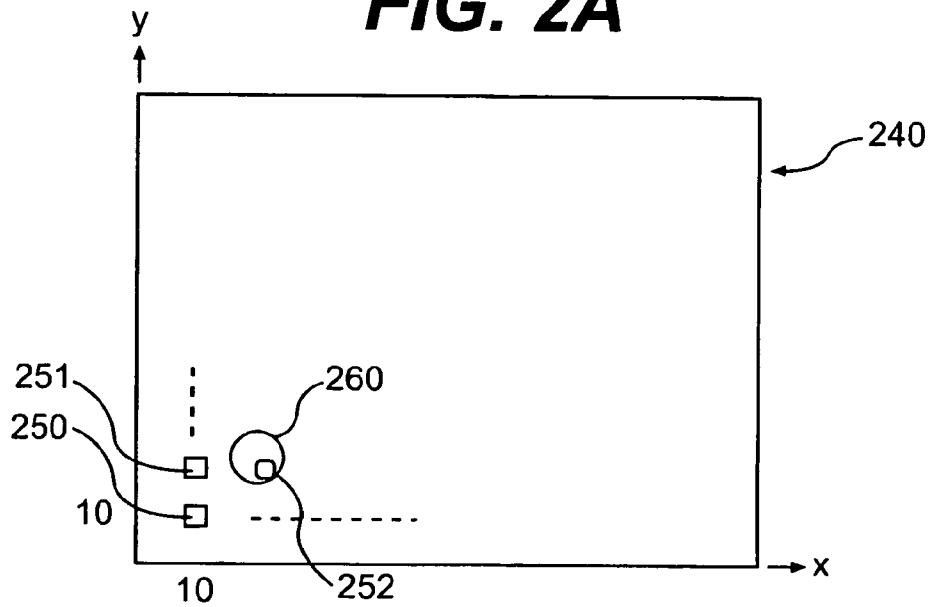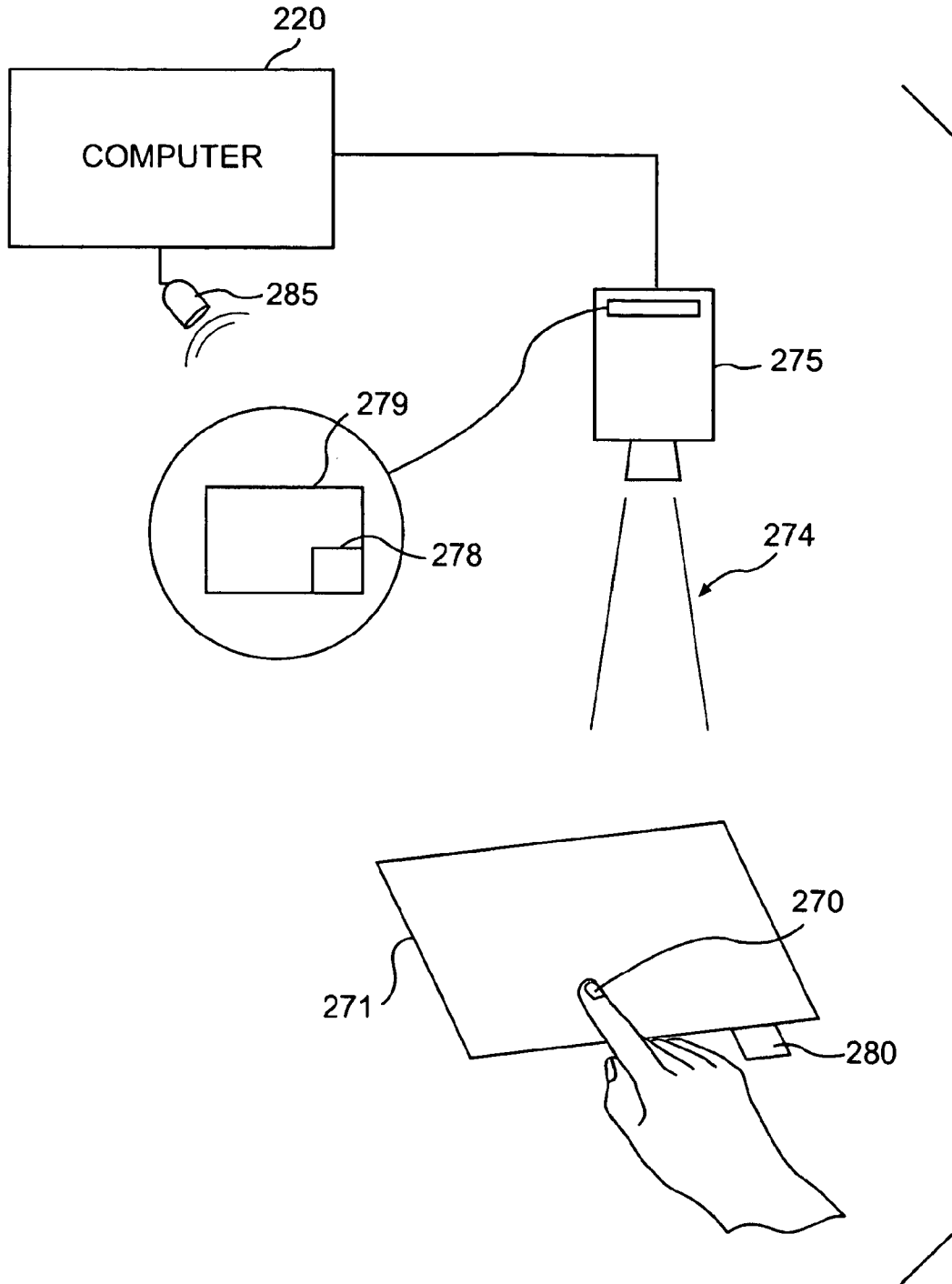
31 Claims, 22 Drawing Sheets

FIG. 1A

FIG. 1B

FIG. 1C

FIG. 2A

FIG. 2B

FIG. 2C

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

fastcase
Smarter legal research.