



US 20110025879A1

(19) **United States**

(12) **Patent Application Publication**
DRADER et al.

(10) **Pub. No.: US 2011/0025879 A1**

(43) **Pub. Date: Feb. 3, 2011**

(54) **METHOD AND APPARATUS FOR CONTROLLING A CAMERA MODULE TO COMPENSATE FOR THE LIGHT LEVEL OF A WHITE LED**

Publication Classification

(51) **Int. Cl.**
H04N 9/73 (2006.01)

(75) **Inventors:** **Marc DRADER**, Kitchener (CA);
Ken WU, Burlington (CA);
Michael PURDY, Kitchener (CA)

(52) **U.S. Cl.** **348/223.1; 348/E09.051**

Correspondence Address:
Borden Ladner Gervais LLP
1100-100 Queen Street
Ottawa, ON K1P 1J9 (CA)

(57) **ABSTRACT**

A method and an apparatus enabling use of a light source emitting a light of changing intensity and changing spectrum as a flash with a camera module having a white-balance routine and an exposure routine, wherein an initial value representative of a color spectrum emitted by the light source is transmitted to the camera module, the light source is turned on, and the camera module is signaled to scan a plurality of images of the scene while the light source is turned on, allowing the white-balance and exposure algorithms to be employed with each image scanned to refine the first initial value to refine the degree of compensation employed in correcting a color and a light level in the last one of the images of the plurality of images scanned.

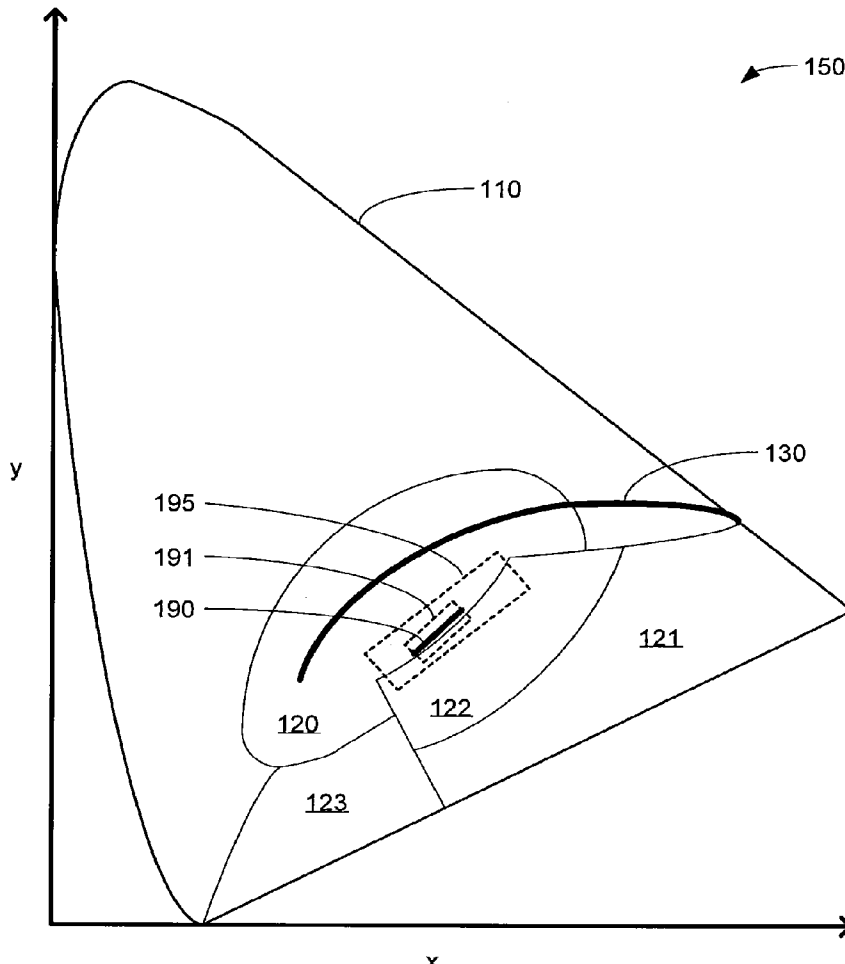
(73) **Assignee:** **RESEARCH IN MOTION LIMITED**, Waterloo (CA)

(21) **Appl. No.:** **12/903,732**

(22) **Filed:** **Oct. 13, 2010**

Related U.S. Application Data

(63) Continuation of application No. 11/626,883, filed on Jan. 25, 2007, now Pat. No. 7,825,958.



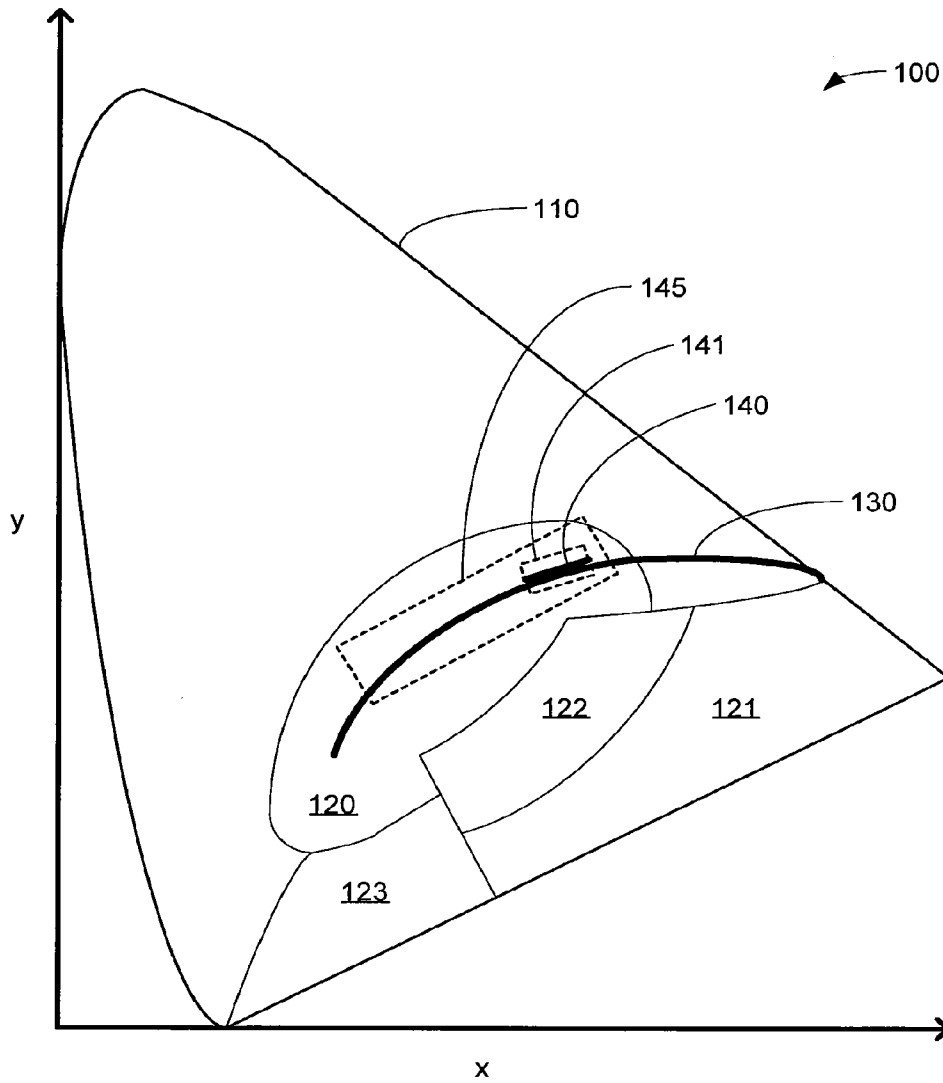


FIG. 1

PRIOR ART

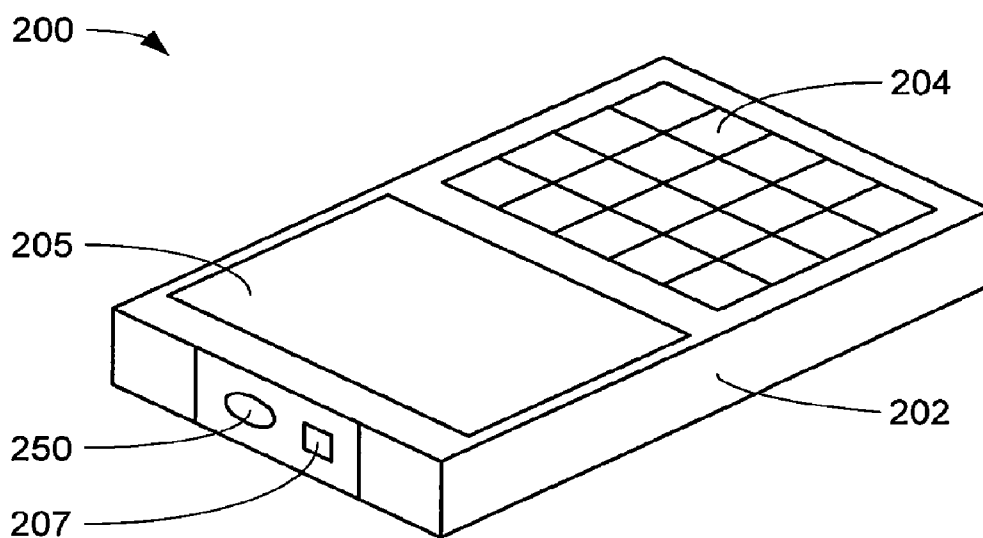


FIG. 2

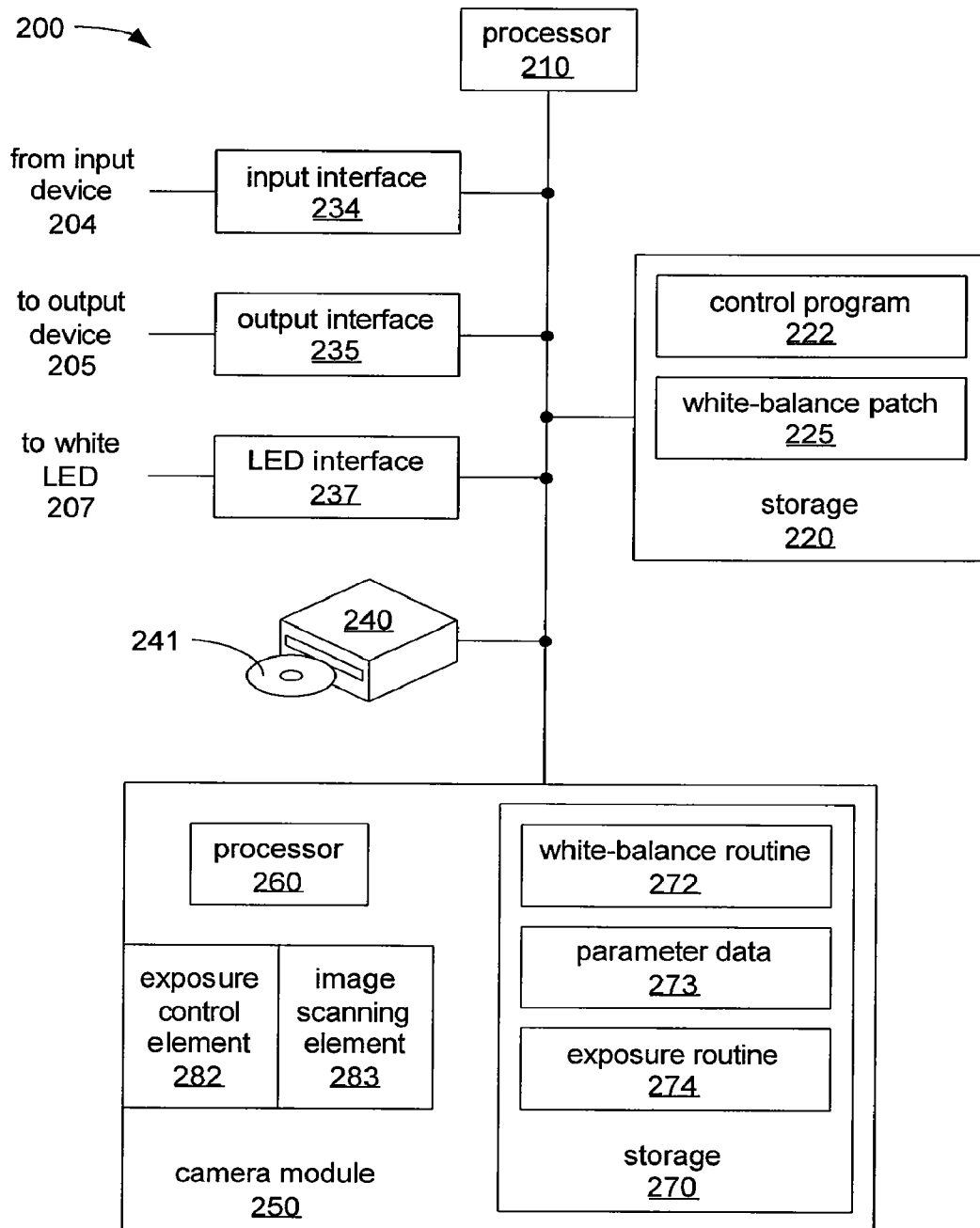


FIG. 3

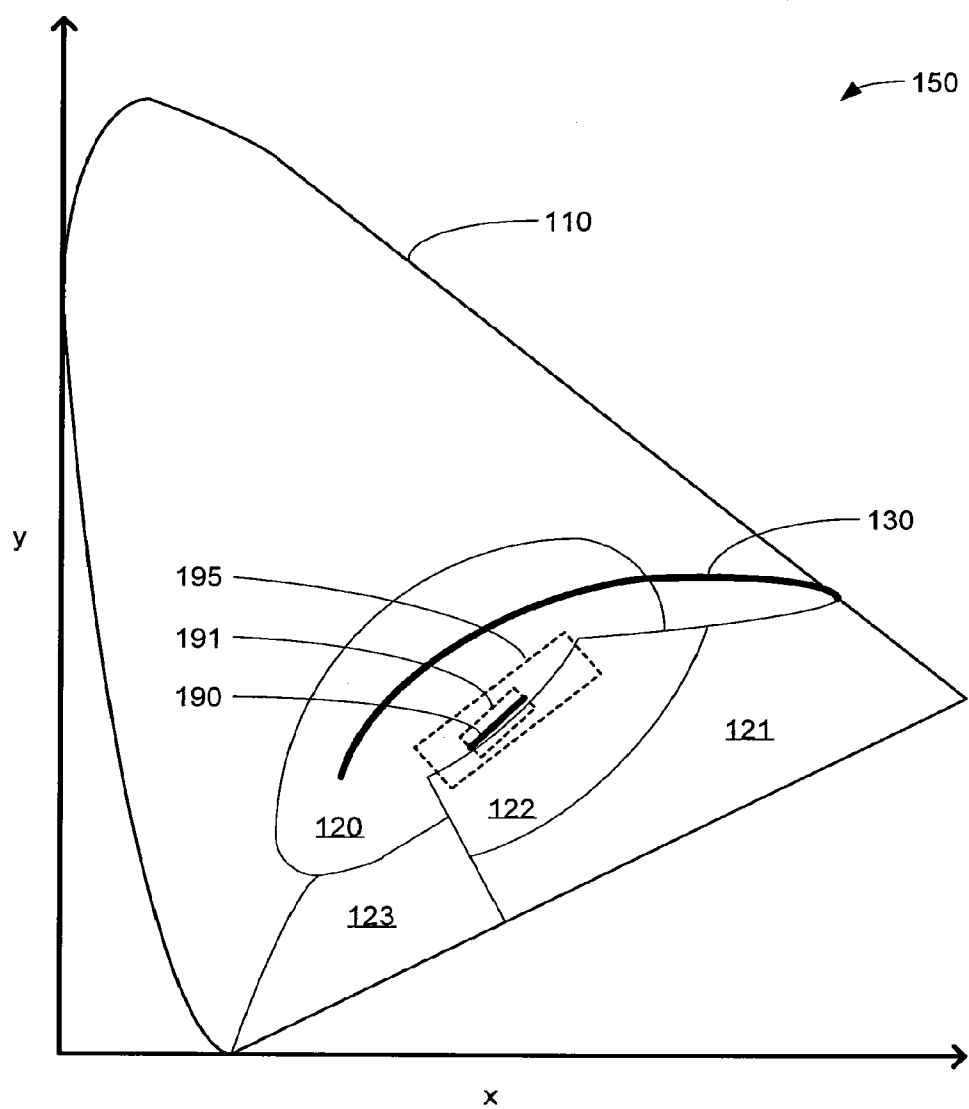


FIG. 4

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.