Exhibit R

(12) **United States Patent**   (10) **Patent No.:**   **US 6,545,670 B1**

Pryor   (45) **Date of Patent:**   **Apr. 8, 2003**

(54) **METHODS AND APPARATUS FOR MAN MACHINE INTERFACES AND RELATED ACTIVITY**

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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.: **09/568,554**

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Related U.S. Application Data

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(51) **Int. Cl.**^{7} **G09G 5/00**

(52) **U.S. Cl.** **345/173**; 345/156

(58) **Field of Search** 345/173, 179, 345/156; 463/51, 52, 36; 273/358

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Primary Examiner—Bipin Shalwala
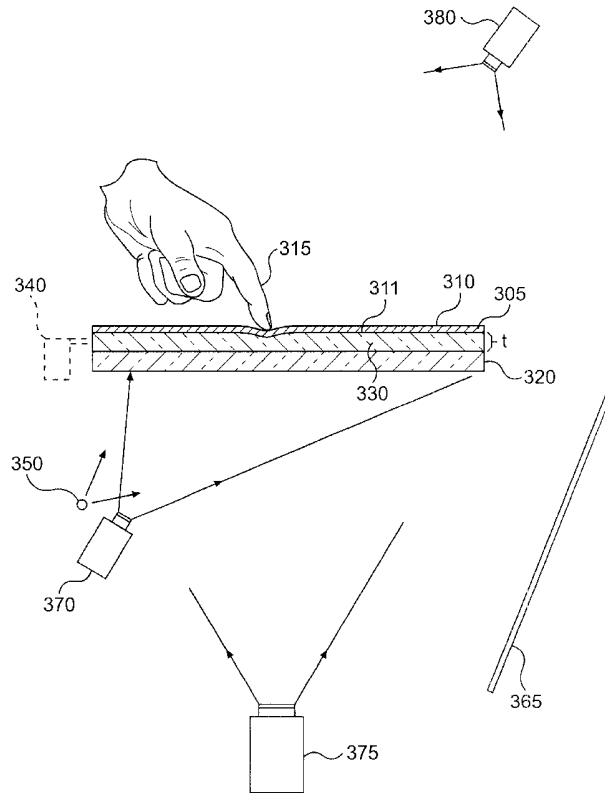*Assistant Examiner*—David L. Lewis
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(57)   **ABSTRACT**

Disclosed herein are new forms computer monitors and displays, and preferred embodiments utilize electro-optical sensors, and particularly TV Cameras, providing optically inputted data from the display screen or from specialized datum's on objects and/or natural features of objects, which may be illuminated using specialized light sources, such as laser pointers. The invention is a continuation of earlier applications aimed at providing affordable methods and apparatus for data communication with respect to people and computers.
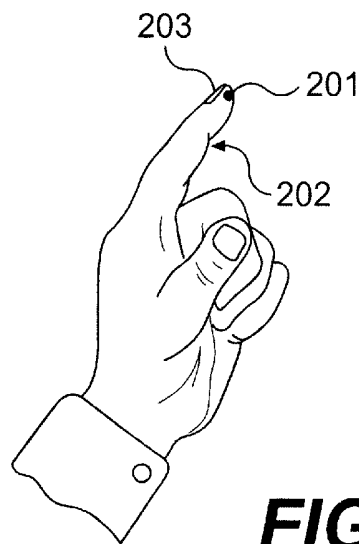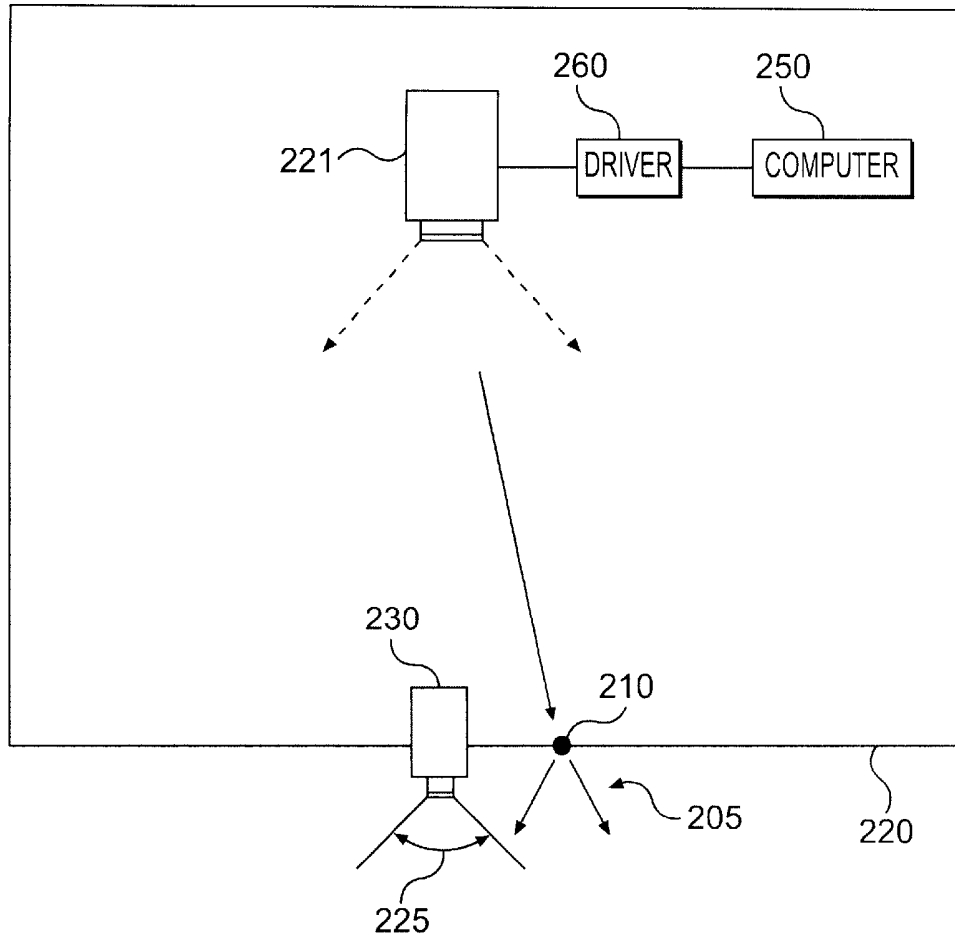
17 Claims, 7 Drawing Sheets

FIG. 1

260

250

221

DRIVER COMPUTER

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210

205

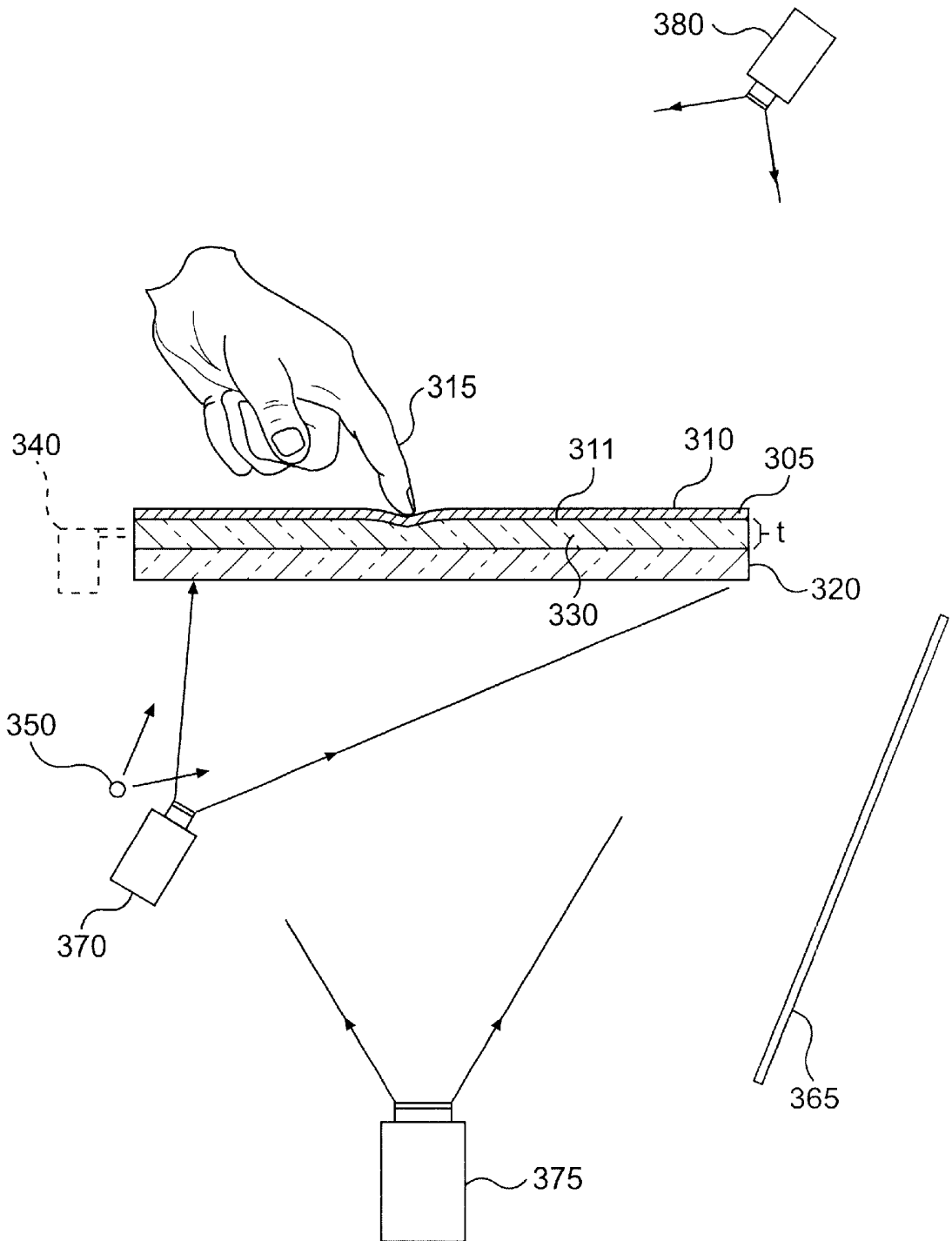220

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FIG. 2

FIG. 3

DOCKET ALARM

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