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Bathiche et al.

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(54) **TWO-HANDED COMPUTER INPUT DEVICE
WITH ORIENTATION SENSOR**

(75) Inventors: **Steven Bathiche**, Seattle, WA (US);
Mark K. Svancarek, Redmond, WA
(US); **Matthew J. Stipes**, Woodinville,
WA (US); **Aditha M. Adams**, Seattle,
WA (US); **Thomas W. Brooks**, Seattle,
WA (US); **Melissa S. Jacobson**, Seattle,
WA (US); **Wolfgang A. Mack**, Seattle,
WA (US)

(73) Assignee: **Microsoft Corporation**, Redmond, WA
(US)

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G09G 5/08 (2006.01)

(52) **U.S. Cl.** **345/158; 463/37**

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340/706; 341/22; 345/161, 158, 169, 7,
345/156; 463/37, 38, 3; 273/148 B; 365/428,
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365/764; 358/1.15, 1.18; 707/201, 203,
707/217, 219, 10; 709/201, 206, 217, 219;
715/517, 522, 526, 527, 530, 513

See application file for complete search history.

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Primary Examiner—Sumati Lefkowitz

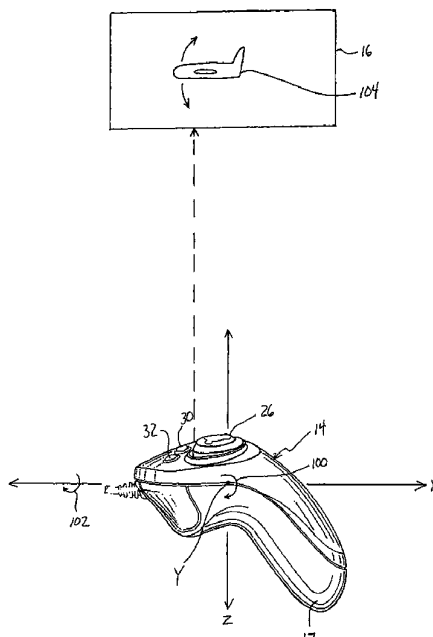
Assistant Examiner—Srilakshmi K Kumar

(74) *Attorney, Agent, or Firm*—Leanne R. Taveggia;
Westman, Champlin & Kelly, P.A.

(57) **ABSTRACT**

A hand held computer input device includes a first housing
portion having at least one user actuable input device. A first
extending handle is coupled to, and extends away from, the
first housing portion. A second handle is also coupled to, and
extends away from, the first housing portion. An orientation
sensor is coupled to the first housing and is configured to
sense a physical orientation of the first housing portion. The
orientation sensor provides an orientation signal indicative
of the physical orientation sensed.

13 Claims, 11 Drawing Sheets



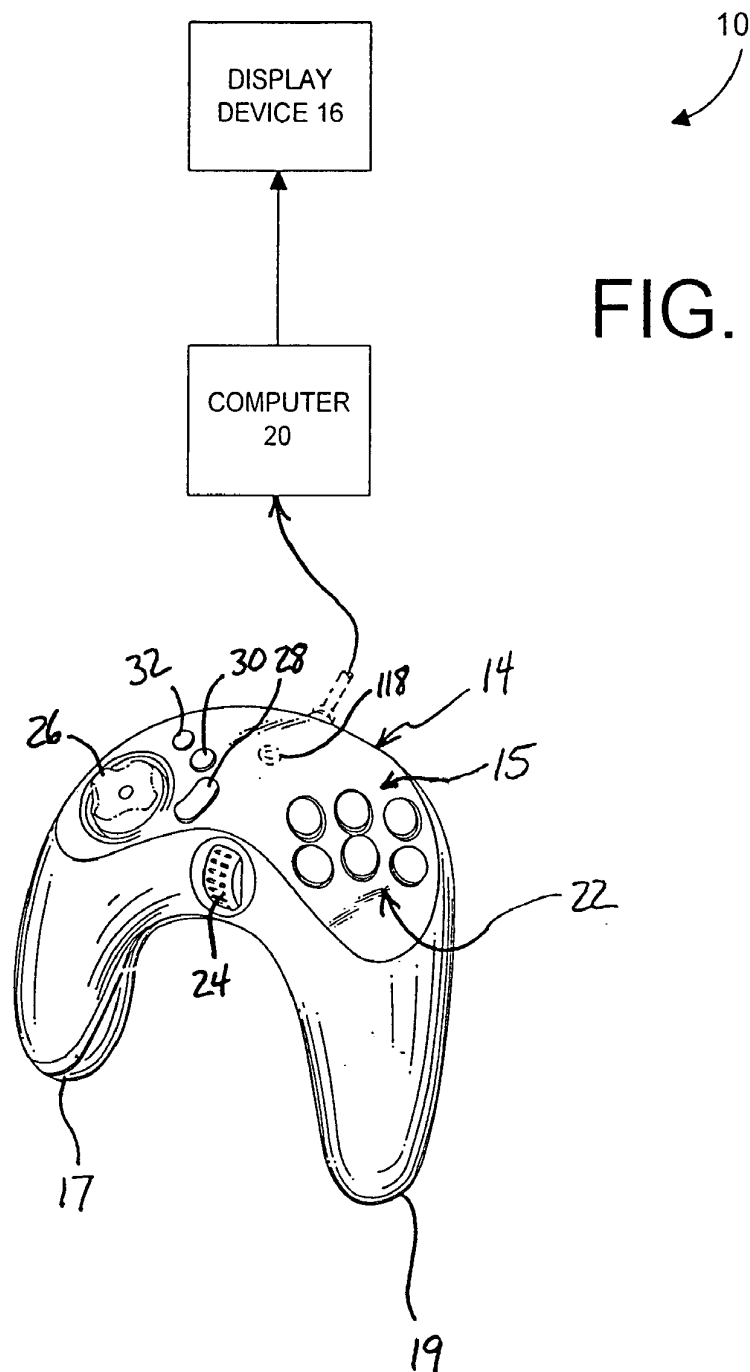
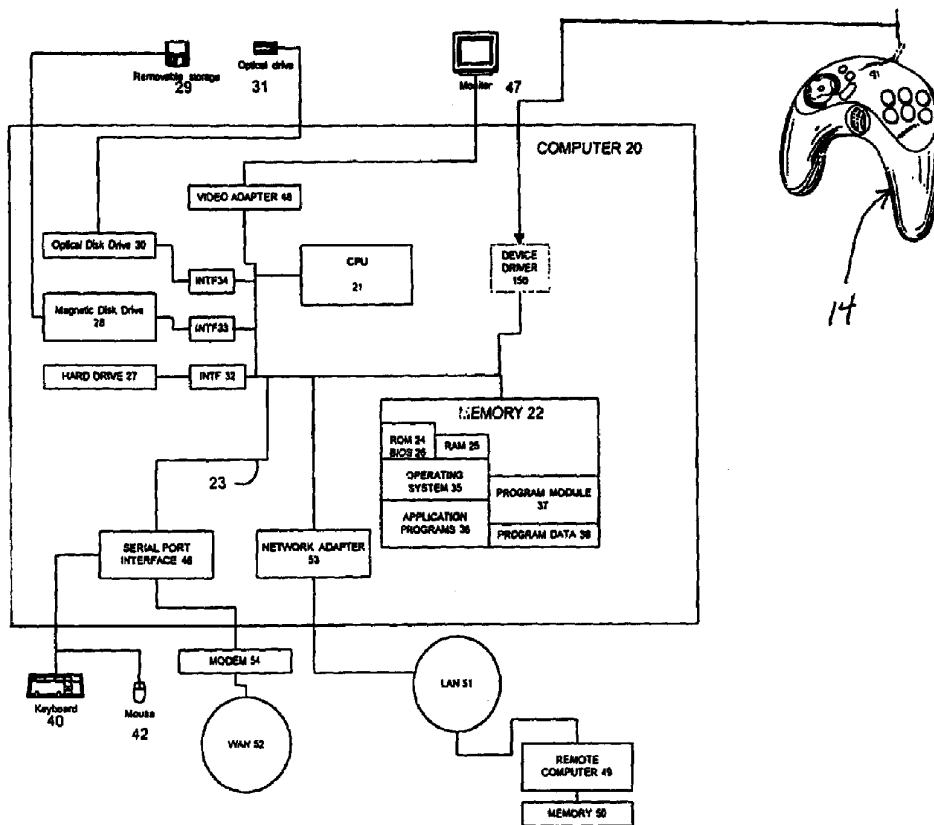
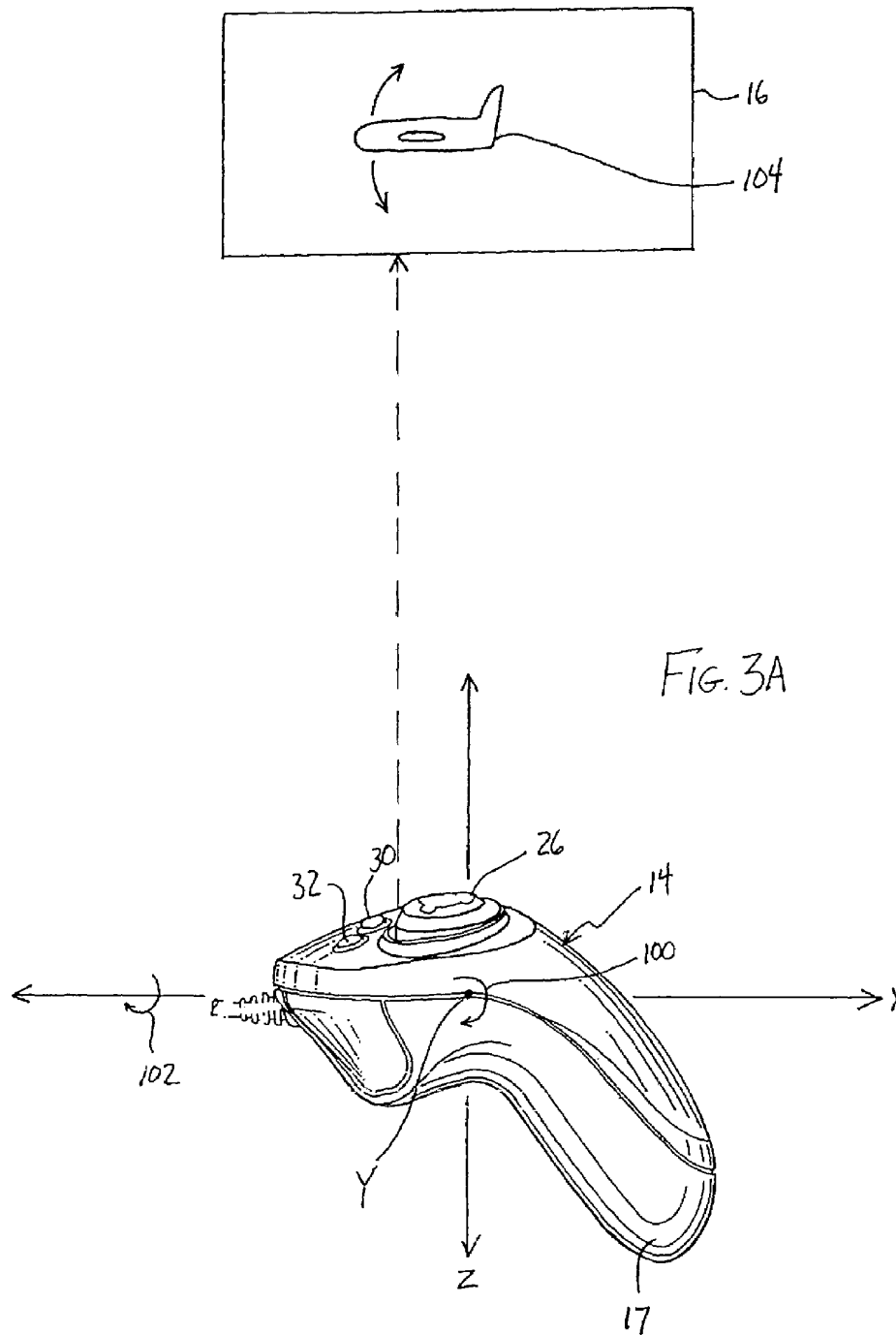
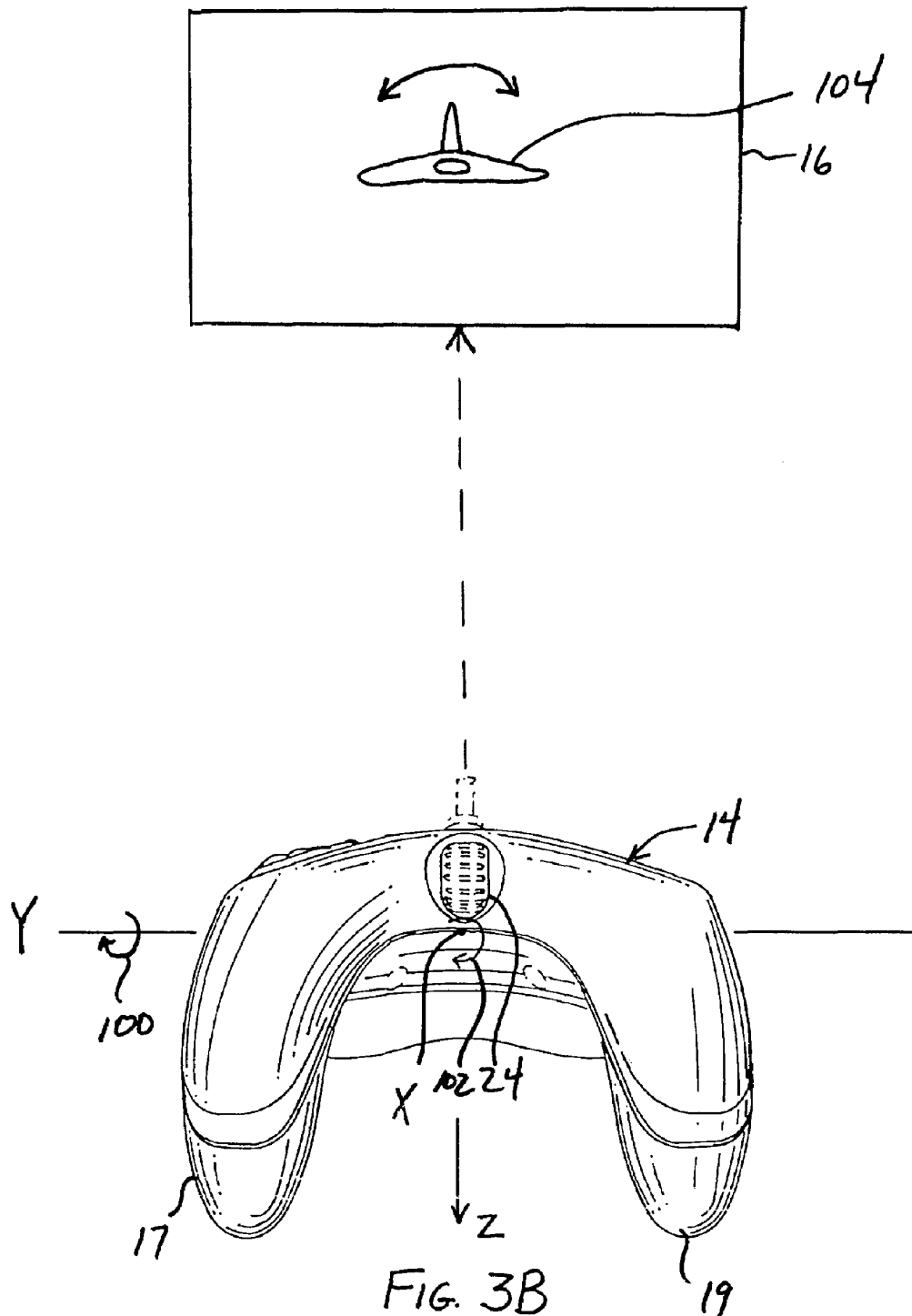


FIG. 2







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