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Park**

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(54) **MULTI-FUNCTIONAL USER INTERFACE
FOR ELECTRONIC DEVICES**

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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 1487 days.

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(51) **Int. Cl.**
G09G 5/00 (2006.01)

(52) **U.S. Cl.** **345/156**; 345/168; 345/169;
345/184; 400/472; 400/485

(58) **Field of Classification Search** 345/156-172;
400/472, 485, 100
See application file for complete search history.

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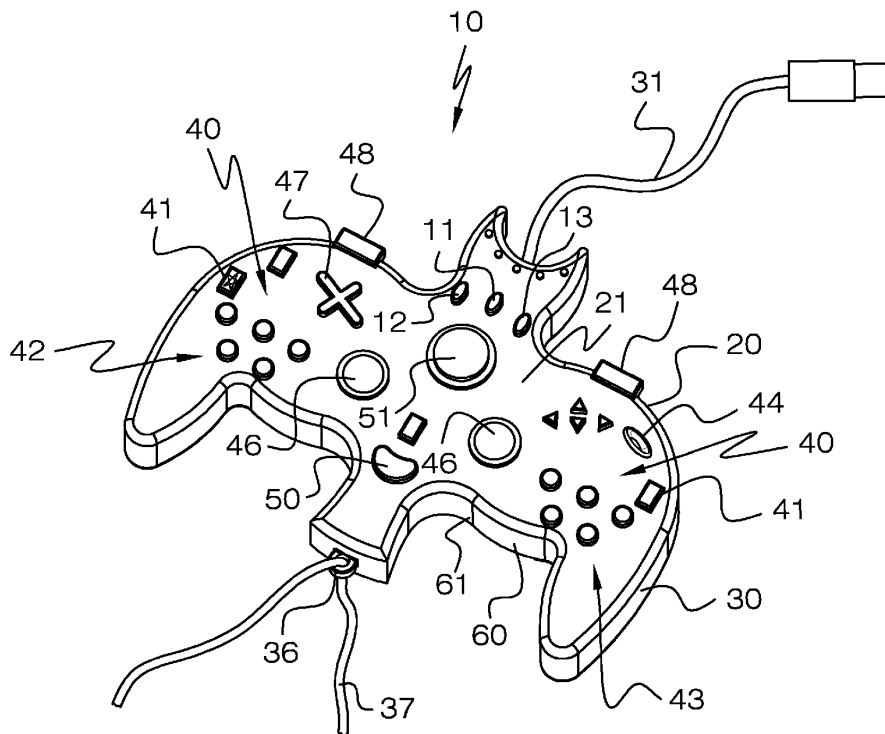
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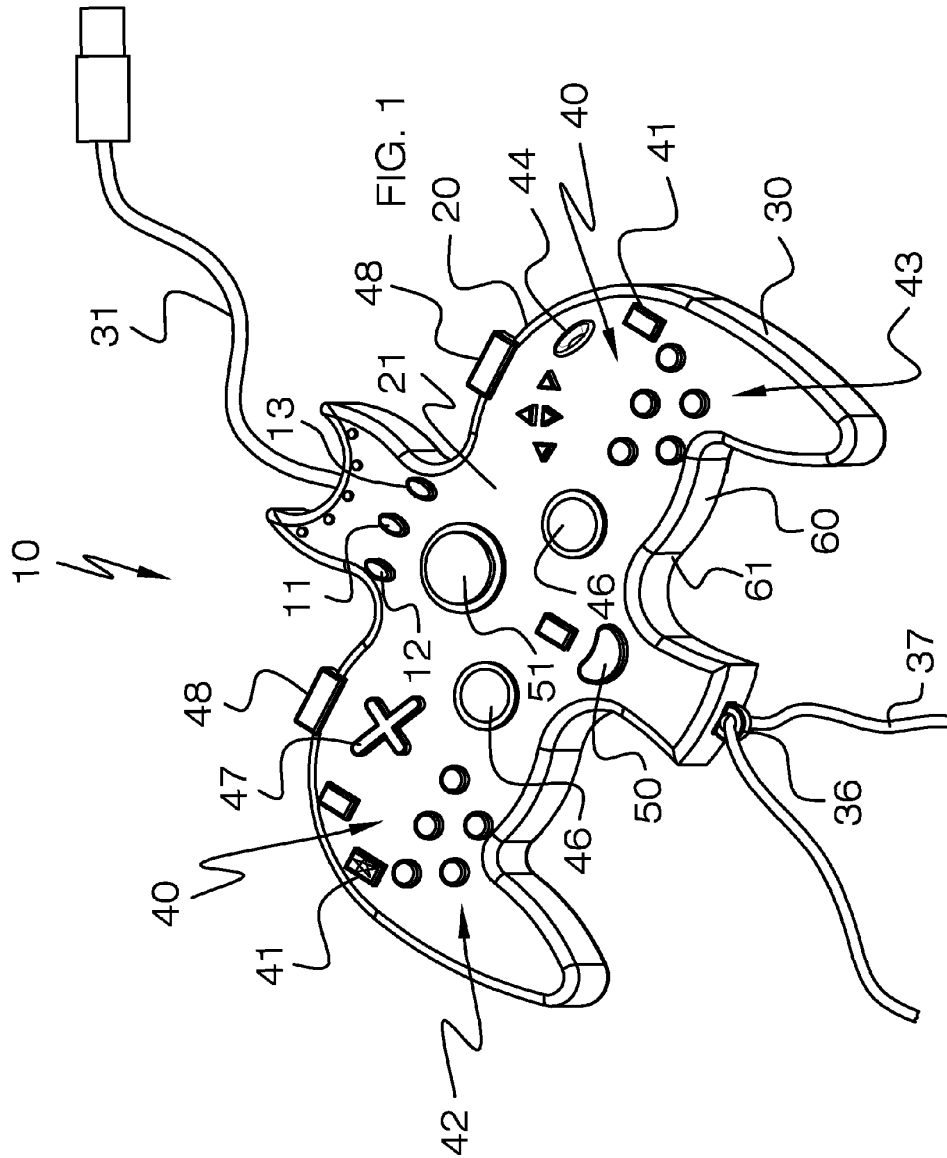
Primary Examiner—Quan-Zhen Wang
Assistant Examiner—Jennifer T Nguyen

(57) **ABSTRACT**

A multi-functional user interface for electronic devices includes a hand-operable controller for providing an interface through which a user can command a peripheral electronic device to perform multiple actions. Such a controller includes an ergonomic housing including a communication link electrically matable to the electronic device. The housing includes a plurality of controls for generating a plurality of control signals based upon a plurality of corresponding user inputs respectively. The housing includes front and rear faces, each including a plurality of controls for generating a plurality of signals based upon a plurality of corresponding user inputs respectively. The device is selectively interchangeable between Internet Mode, Applications Mode, and Word Mode, conveniently enabling a user to use a single input device for a variety of different functions.

12 Claims, 7 Drawing Sheets





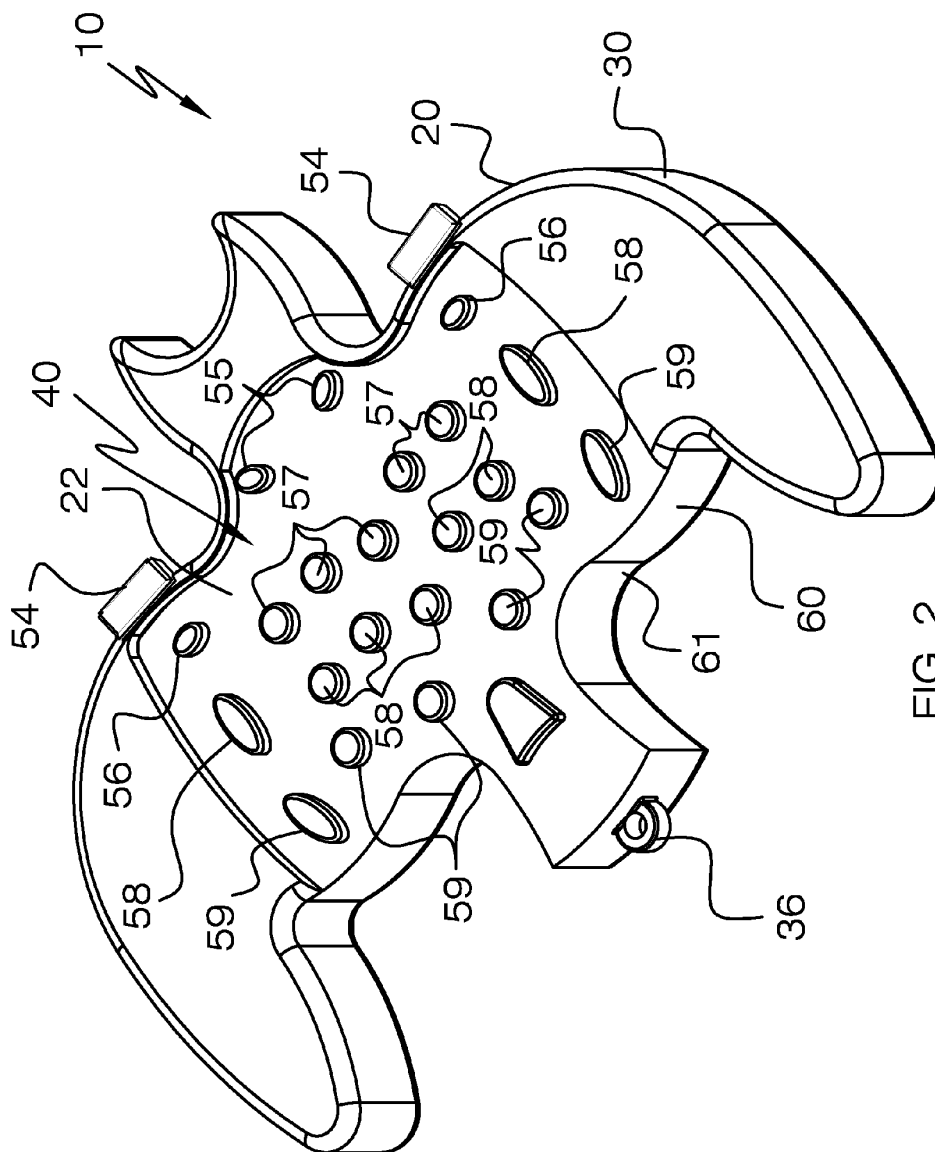


FIG. 2

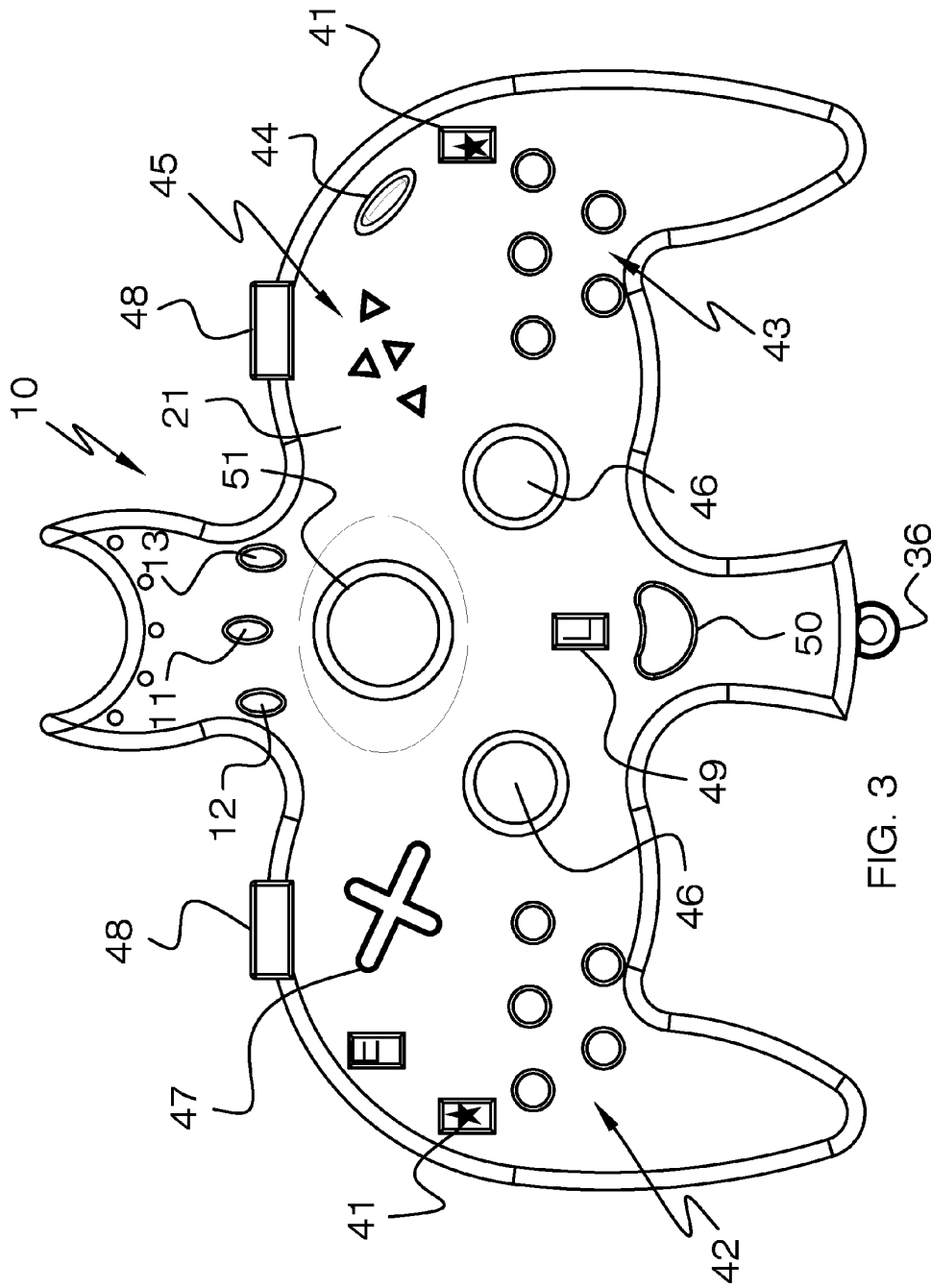


FIG. 3

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