United States Patent [19]

Goto et al.

[54] CONTROLLER UNIT FOR ELECTRONIC DEVICES

- [75] Inventors: **Teiyu Goto**, Saitama; **Hiroki Ogata**, Chiba, both of Japan
- [73] Assignee: Sony Corporation, Tokyo, Japan
- [21] Appl. No.: **436,728**
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[30] Foreign Application Priority Data

- May 9, 1994 [JP] Japan 6-094988
- Oct. 3, 1994 [JP] Japan 6-238898
- [51] Int. Cl.⁶ A63F 9/22
- [52]
 U.S. Cl.
 463/37; 345/169

 [58]
 Field of Search
 273/148 B, 438,
- 273/85, 434, DIG. 28; 345/156, 161

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US005551693A

[11] Patent Number:	5,551,693
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[45] **Date of Patent:** Sep. 3, 1996

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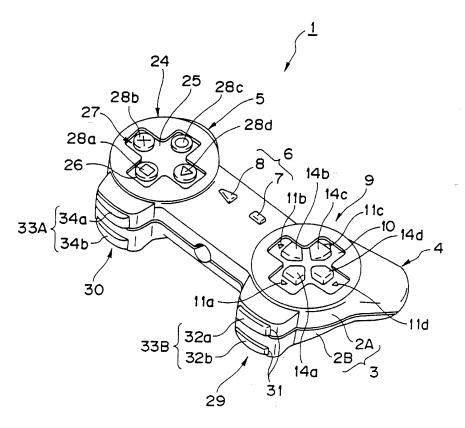
Primary Examiner-Raleigh W. Chiu

Attorney, Agent, or Firm-Hill, Steadman & Simpson, A Professional Corporation

[57] ABSTRACT

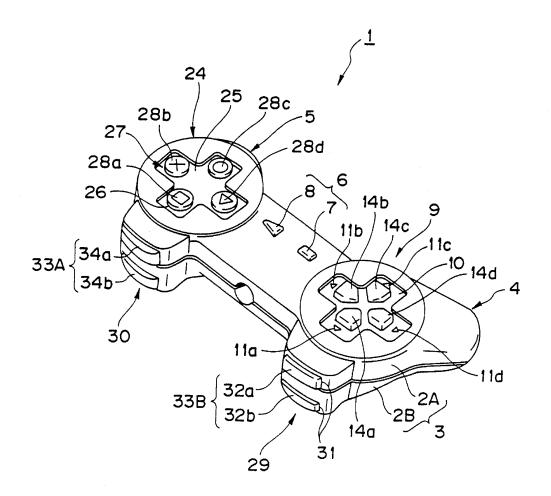
A controller unit for controlling an electronic device such as a video game. The controller unit comprises a housing with a pair of handles diverging toward a user and gripped by the palms of the user, first and second control sections arranged on the top of the housing and each including a plurality of key elements, and third and fourth control sections arranged on the front side of the housing and each including upper and lower key elements. The first control section comprises a key body having a first semispherical recess on its bottom and a second semispherical recess on its top, a spherical fulcrum member located below the key body and engageable with the first recess, a base plate mounted in the housing and including fixed contacts, a resilient body disposed between the key body and the base plate and including movable contacts, and a key support centrally located at the key body and having a semispherical projection engageable with the second recess.

22 Claims, 10 Drawing Sheets



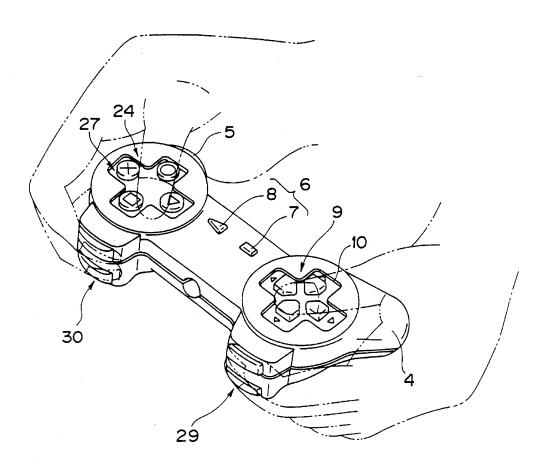
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FIG.1



Α

FIG.2





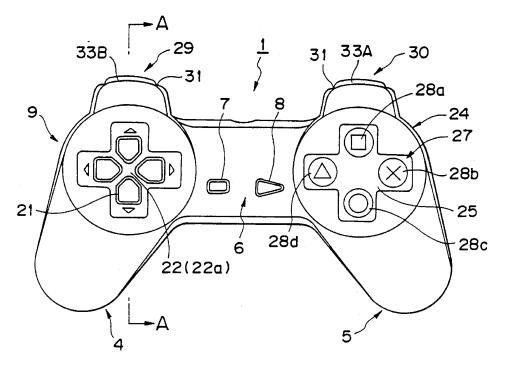
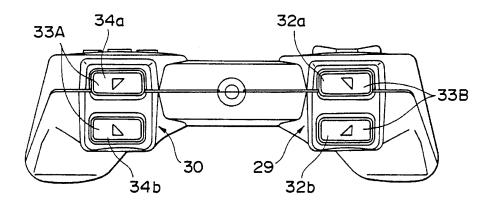
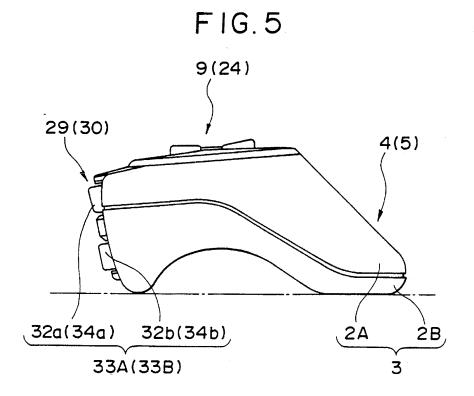


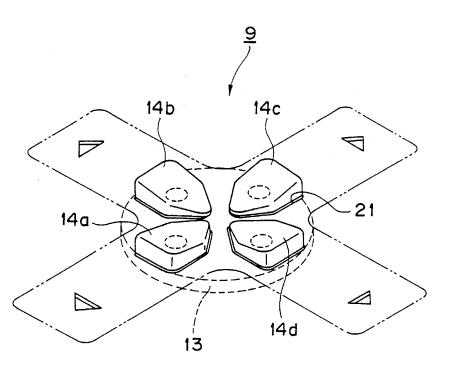
FIG.4



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