

US007012802B2

## (12) United States Patent

#### Nakajima et al.

#### (54) ELECTRONIC APPARATUS INCLUDING OPTICAL GUIDE THAT GUIDES LIGHT FROM LIGHT-EMITTING DIODE TO OUTSIDE OF HOUSING

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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 58 days.
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- (22) Filed: Jun. 29, 2004

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#### (30) Foreign Application Priority Data

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- (51) Int. Cl. *G06F 1/16* (2006.01)

## (10) Patent No.: US 7,012,802 B2

#### (45) Date of Patent: Mar. 14, 2006

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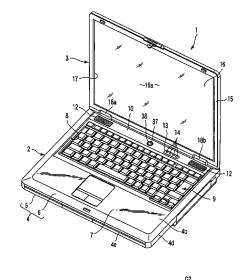
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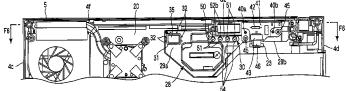
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#### (57) **ABSTRACT**

An electronic apparatus that includes a housing, a holder provided in the housing and a light-emitting portion provided in the housing. The holder is made of a resin and supports components. The holder includes an optical guide that guides light emitted from the light-emitting portion to outside of the housing, and the optical guide is formed integral with the holder.

#### 20 Claims, 6 Drawing Sheets





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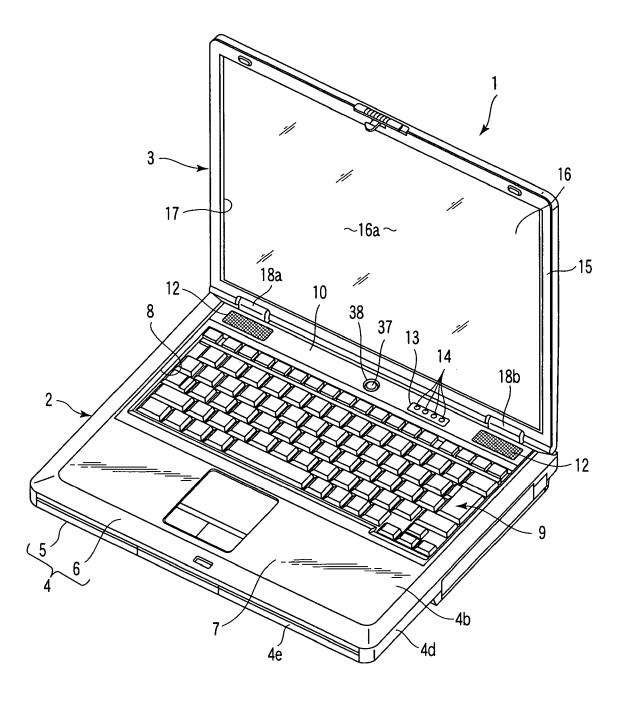
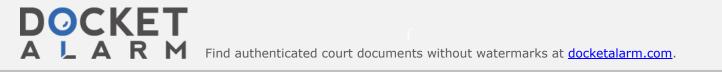
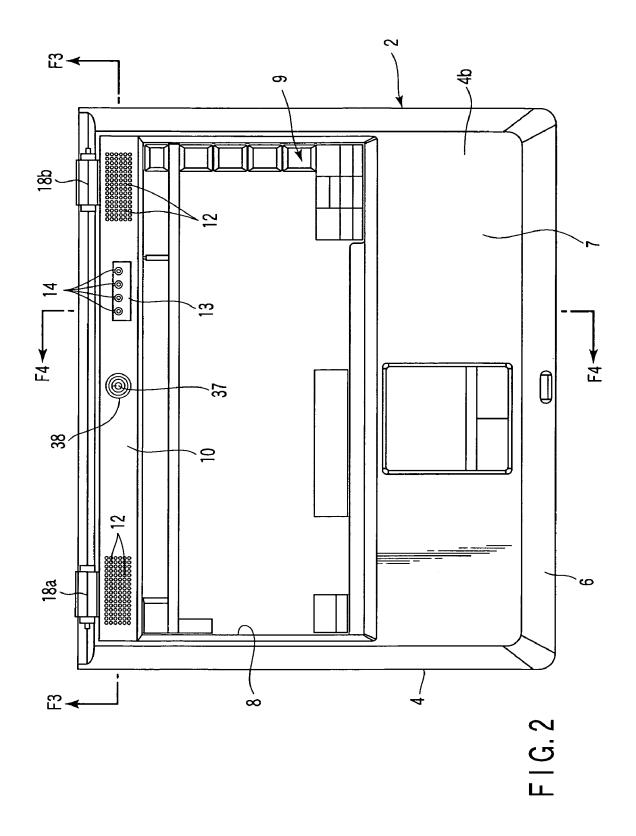


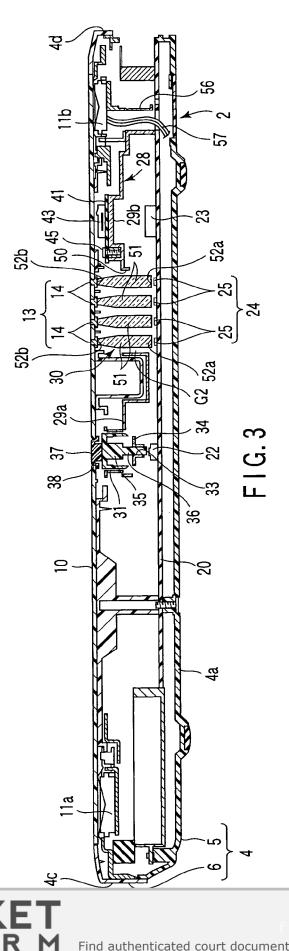
FIG. 1

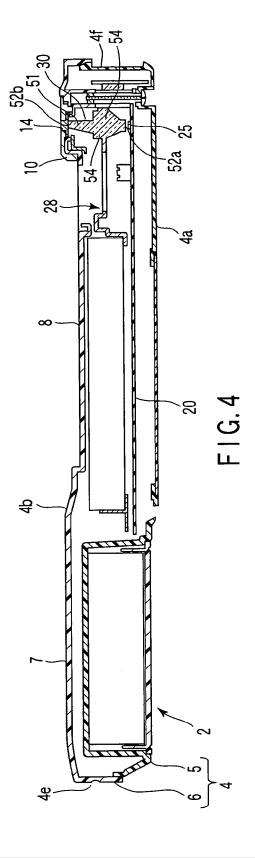




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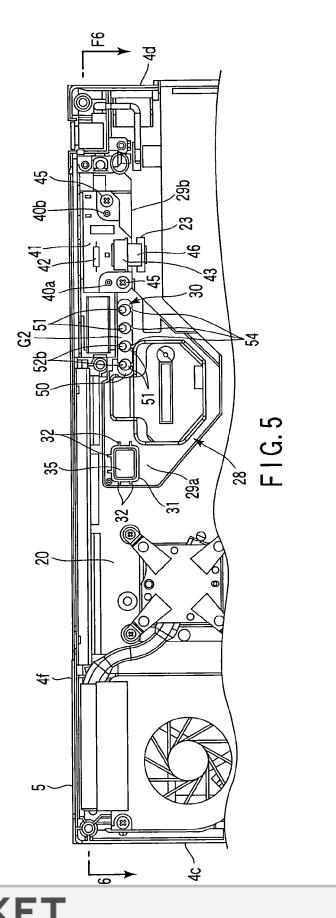
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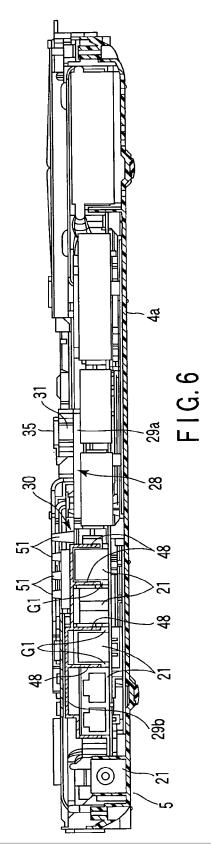
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