

(12) **United States Patent**
Chen

(10) **Patent No.:** **US 6,241,538 B1**
(45) **Date of Patent:** **Jun. 5, 2001**

(54) **POWER SUPPLY PLUG STRUCTURE FOR A NOTEBOOK COMPUTER**

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* cited by examiner

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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.

(57) **ABSTRACT**

A power supply plug structure for a notebook computer includes a housing, two elongated sheet-shaped connecting legs, and two conducting pieces. An operation space is formed in the housing and has two sides each defining a receiving recess. Two opposite pivot holes are each defined in the operation space. Each of the two connecting legs is pivotally mounted in the receiving recess and includes a rotation shaft having two ends each having a pivot axle received in the pivot hole of the housing. A drive gear is mounted on the rotation shaft, and a conducting hook is integrally formed on the rotation shaft. Each of the conducting pieces detachably contacts with the conducting hook when the two connecting legs are pivoted to a fixed position. A plurality of meshing driven gears each mesh with the drive gear of the rotation shaft of each of the two connecting legs.

(21) Appl. No.: **09/590,356**

(22) Filed: **Jun. 8, 2000**

(51) **Int. Cl.⁷** **H01R 13/44**

(52) **U.S. Cl.** **439/131**

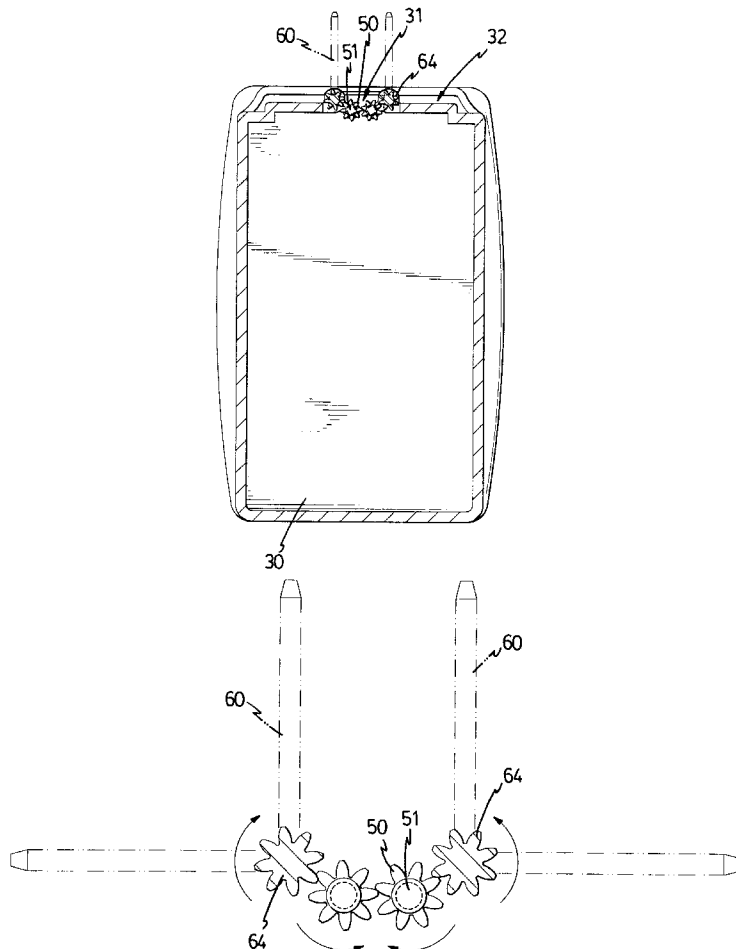
(58) **Field of Search** 439/535, 901,
439/915, 131; 174/53; 200/43.22

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U.S. PATENT DOCUMENTS

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8 Claims, 7 Drawing Sheets



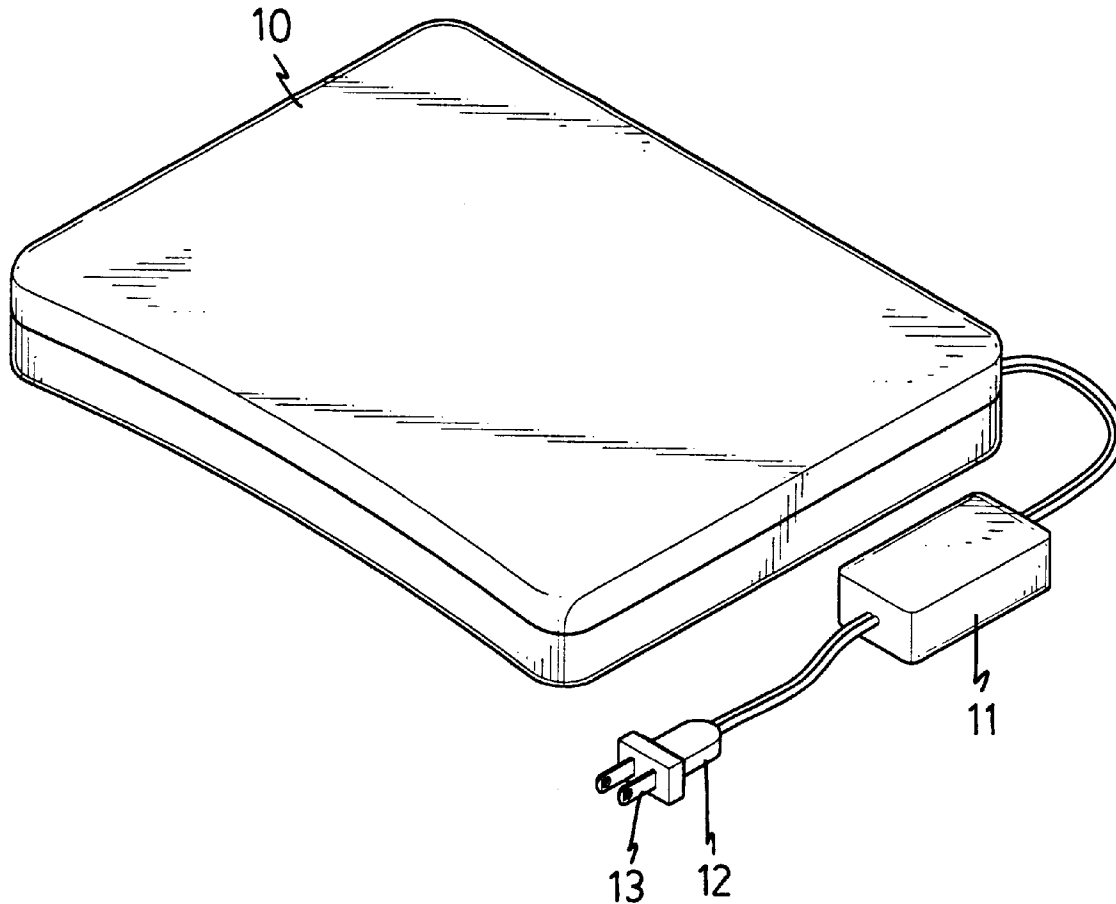


FIG. 1
PRIOR ART

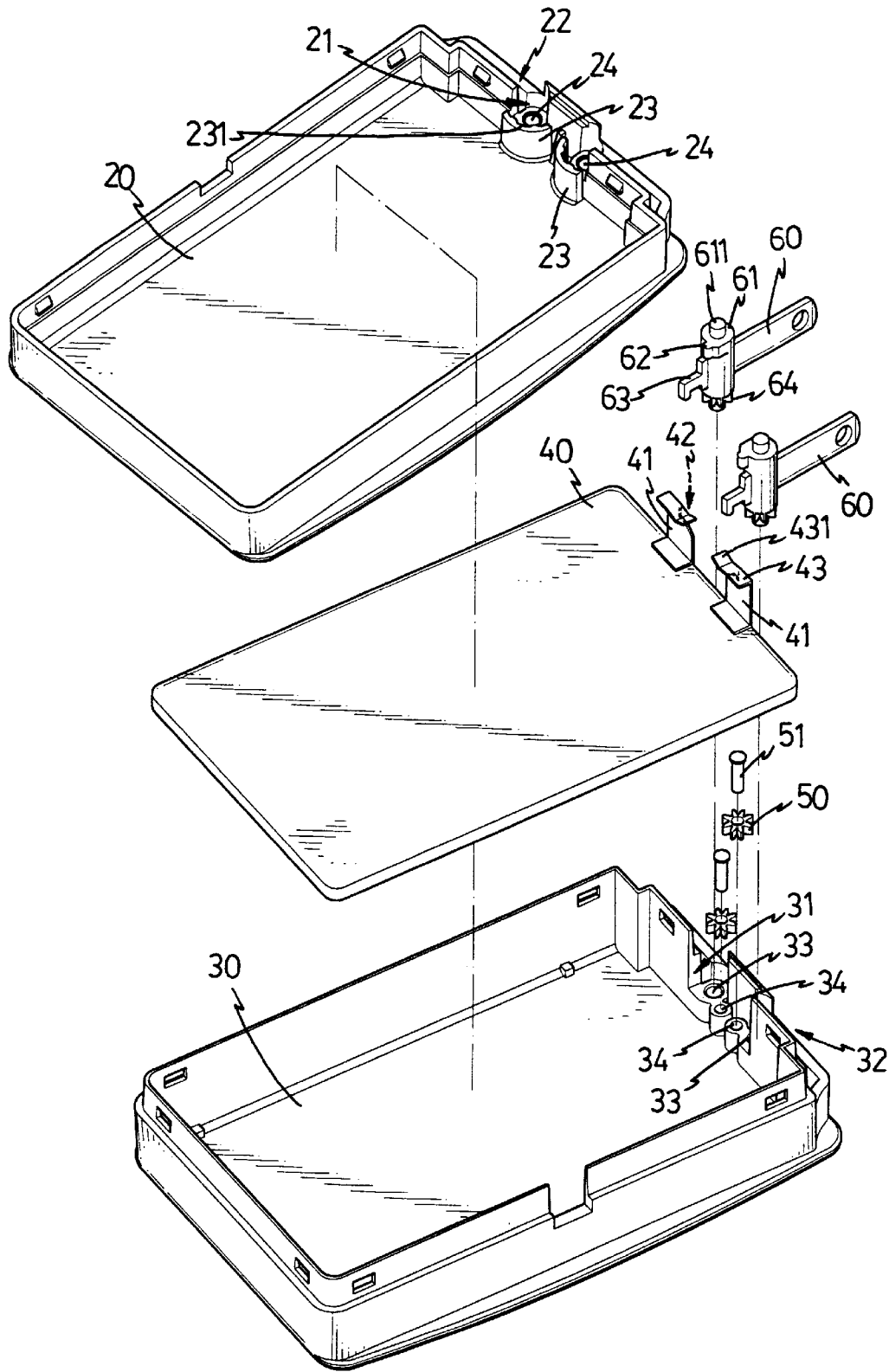


FIG. 2

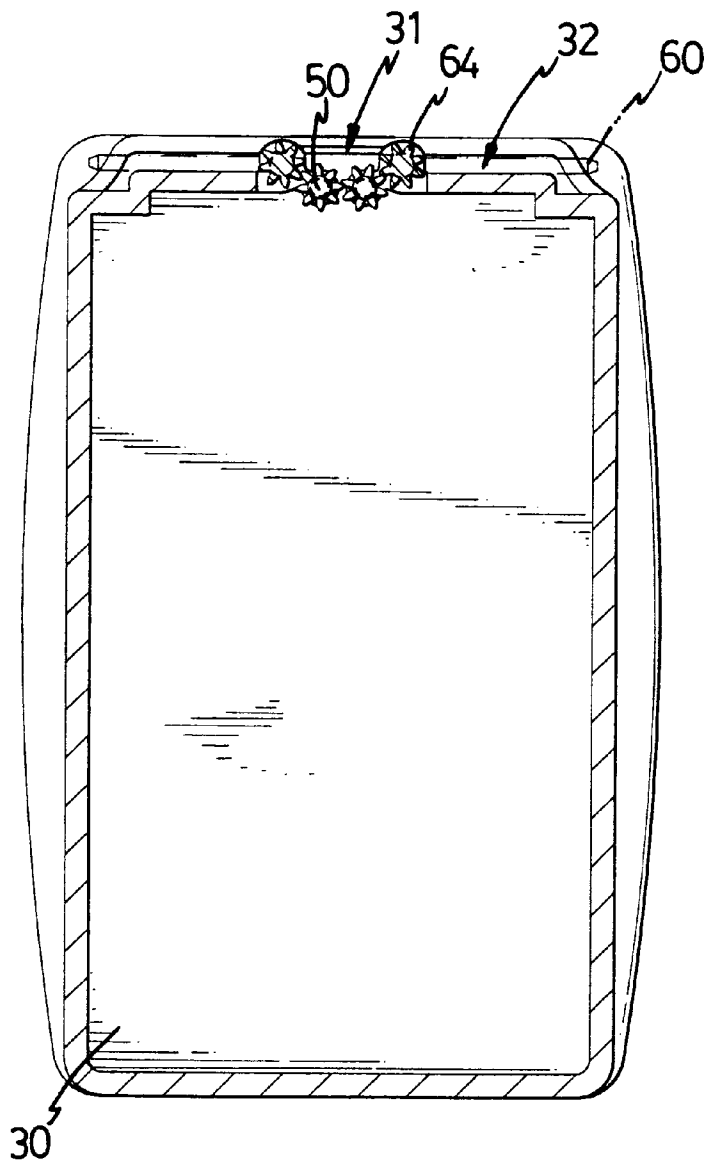


FIG. 3

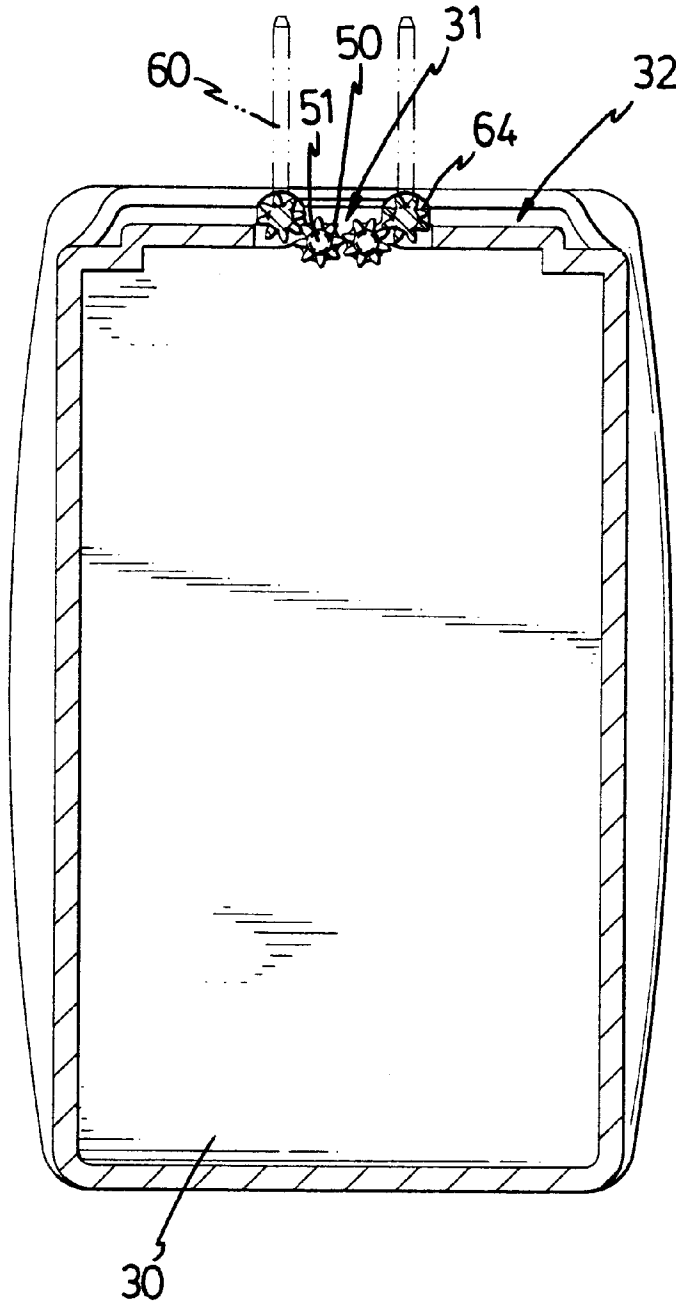


FIG. 4

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