

JS006049192A

United States Patent [19]

Kfoury et al.

[11] Patent Number: 6,049,192 [45] Date of Patent: Apr. 11, 2000

[54]	BATTERY CHARGER HAVING MOVING
	DOOR HOUSING FOR A BATTERY

[75] Inventors: Tony N. Kfoury, Lisle; Jon Godston, Chicago; Robert Hertlein, Round Lake

Beach; Andrew A. Powell, Chicago, all

of Ill

[73] Assignee: Motorola, Inc., Schaumburg, Ill.

[21] Appl. No.: 09/271,831

[22] Filed: Mar. 18, 1999

[51] Int. Cl.⁷ H01M 10/46

[52] **U.S. Cl.** **320/113**; 320/115

108; 429/99, 100

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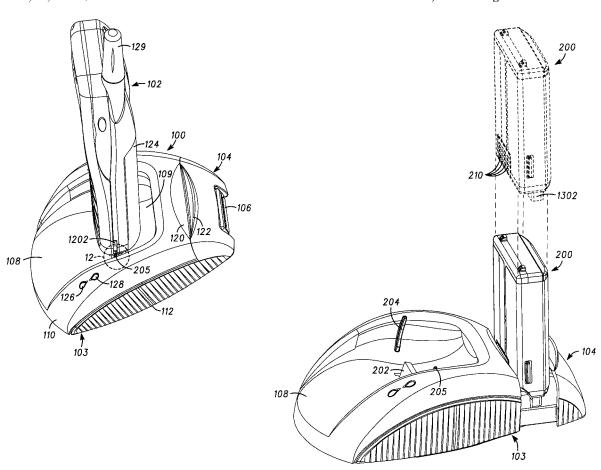
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Primary Examiner—Edward H. Tso Attorney, Agent, or Firm—Michael C. Soldner; Randall S. Vaas

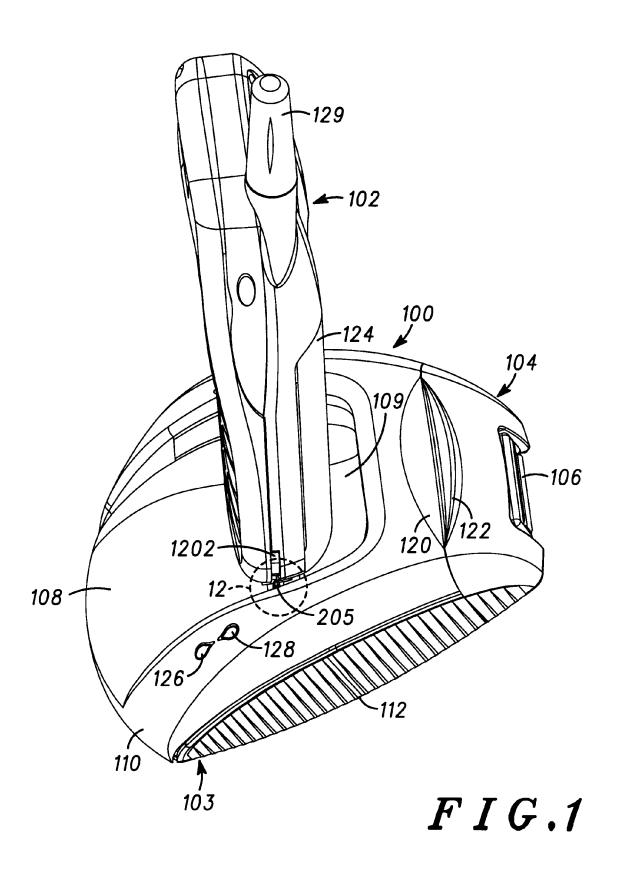
[57] ABSTRACT

A battery charger includes a main housing (103). A well (108) in the main housing is for receipt of an electronic device (102) including a battery. A door housing (104) is movably carried on the main housing. At least one contact (422) is carried on the main housing for connection to a battery (200, 300) inserted between the door housing and the main housing, wherein the door housing is movable between an open position for receipt of a battery and a compact closed position. A circuit is positioned in the main housing for electrical connection to the electronic device and the contacts for charging a battery.

20 Claims, 11 Drawing Sheets









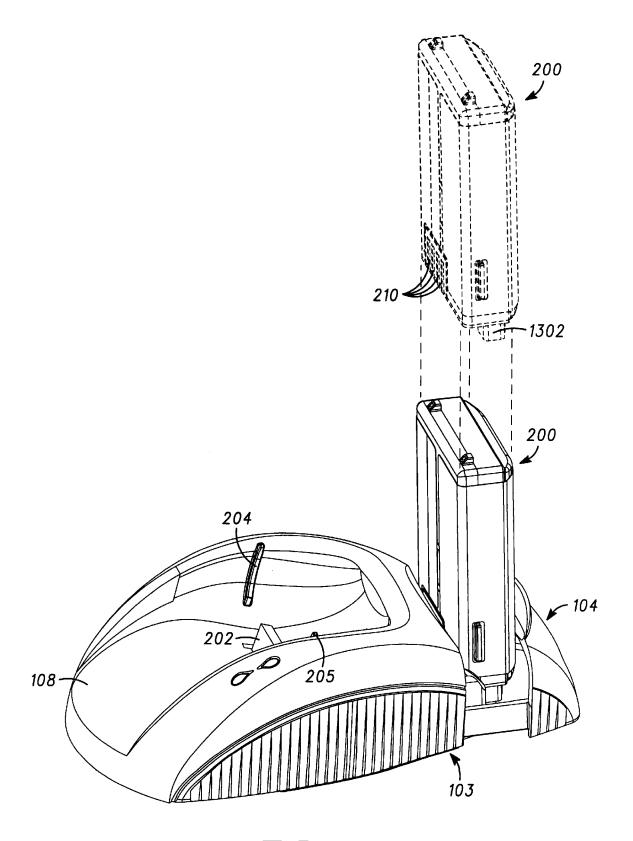


FIG.2



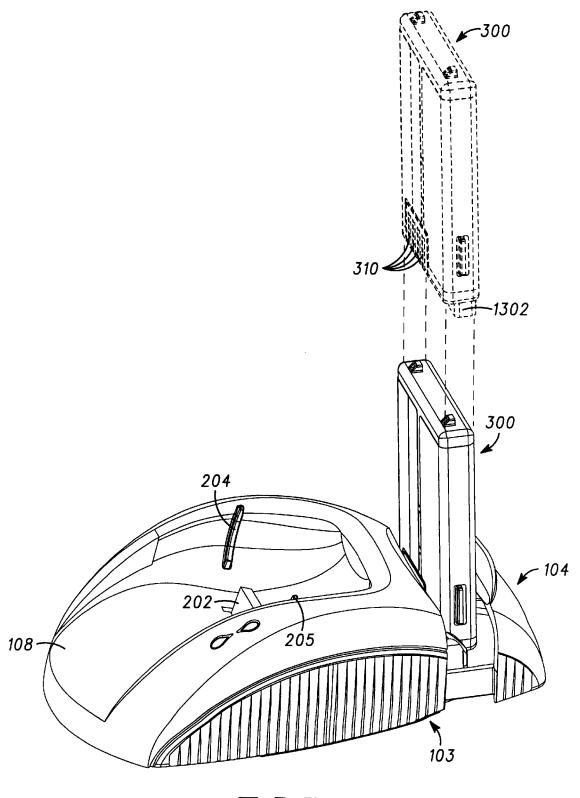
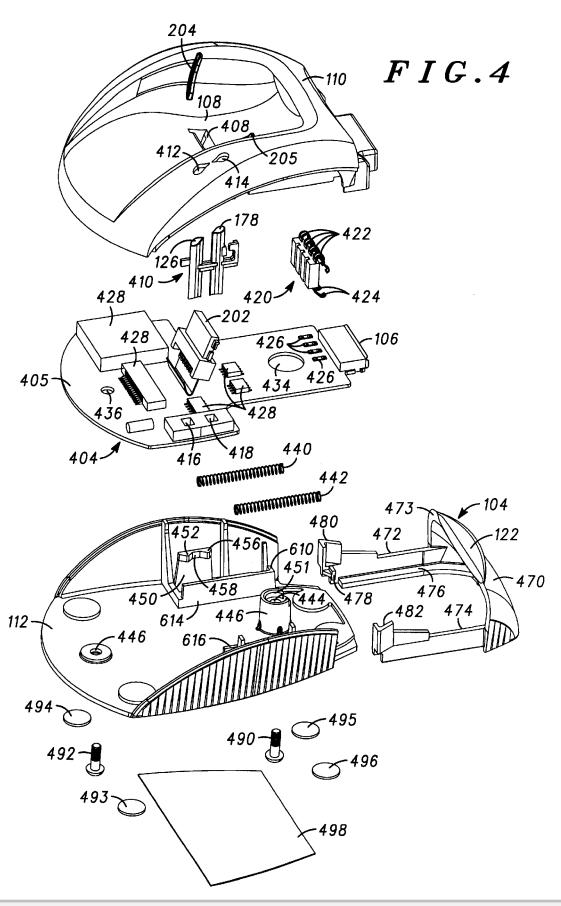


FIG.3



Apr. 11, 2000







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