



United States Patent [19]
Martensson

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[45] **Date of Patent:** **Jul. 13, 1999**

[54] **BATTERY CHARGING UNIT
INCORPORATED IN A POWER CORD REEL
HOUSING**

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[75] Inventor: **Nils Martensson**, Chobham, United Kingdom

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[21] Appl. No.: **08/946,664**

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[22] Filed: **Oct. 7, 1997**

[30] **Foreign Application Priority Data**

[57] **ABSTRACT**

Oct. 30, 1996 [GB] United Kingdom 9622585

The present invention relates to a battery charging unit comprising a housing having a current supply means provided therein for supplying current to an electrical or electronic apparatus located remote from the battery charging unit, coupling means provided on the housing for coupling the current supply means to a mains power supply, means for coupling the remote apparatus to the current supply means, comprising a cable, and a reel provided in the housing for storing the cable in the housing when the battery charging unit is not in use, and allowing the cable to be dispensed when required. This has the advantage that by having a device around which the cable remains wound during storage and from which the cable is simply unwound from the charging unit when it is required eliminates the unsightly and messy bunching of the cable which is a feature of known charging units.

[51] **Int. Cl.⁶** **H02J 7/00; H02M 1/00**

[52] **U.S. Cl.** **320/111; 320/113; 363/146**

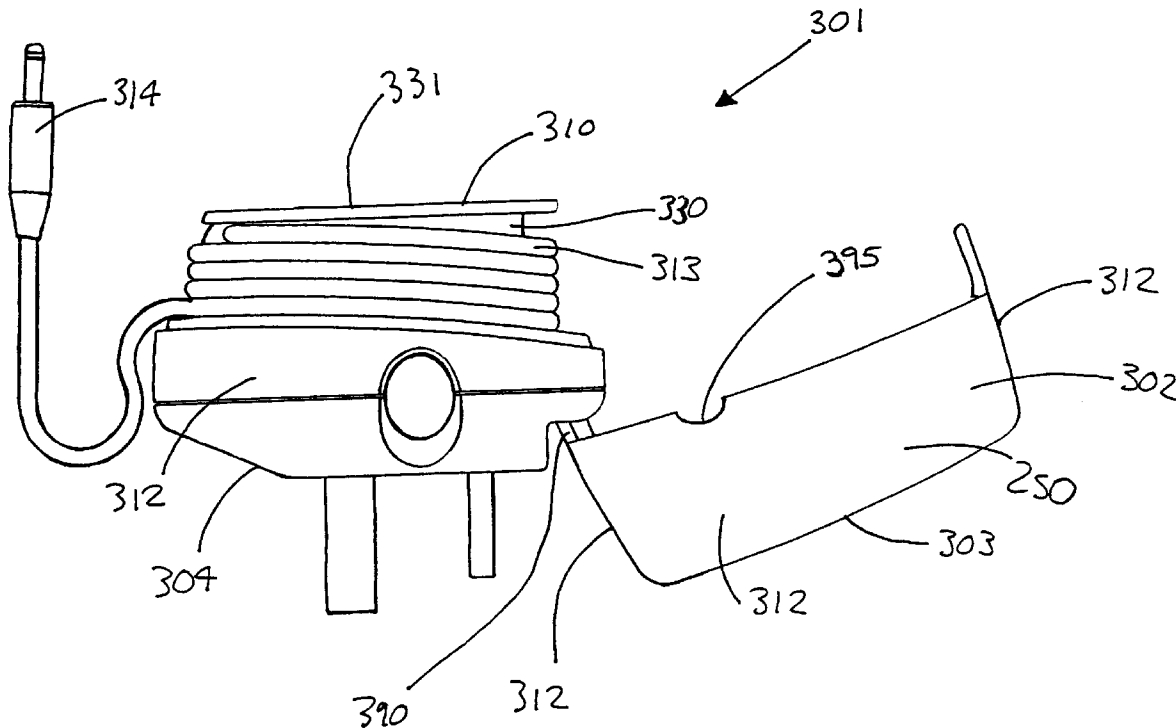
[58] **Field of Search** 320/105, 107, 320/112, 113, 111; 363/144, 146

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18 Claims, 11 Drawing Sheets



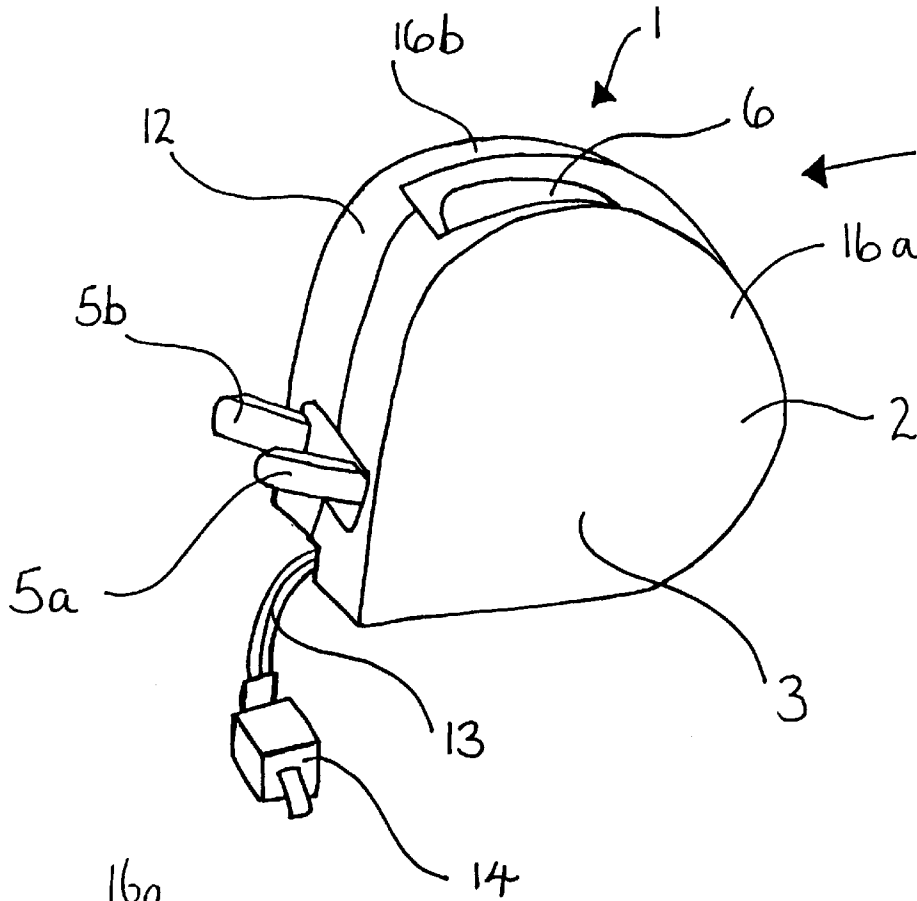


Fig. 1

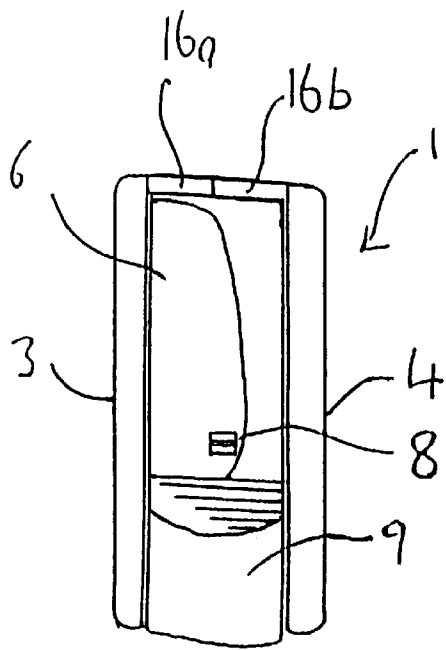


Fig. 2a

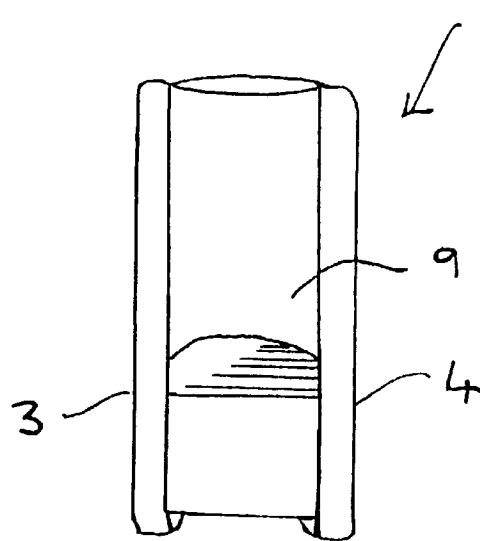


Fig. 2b

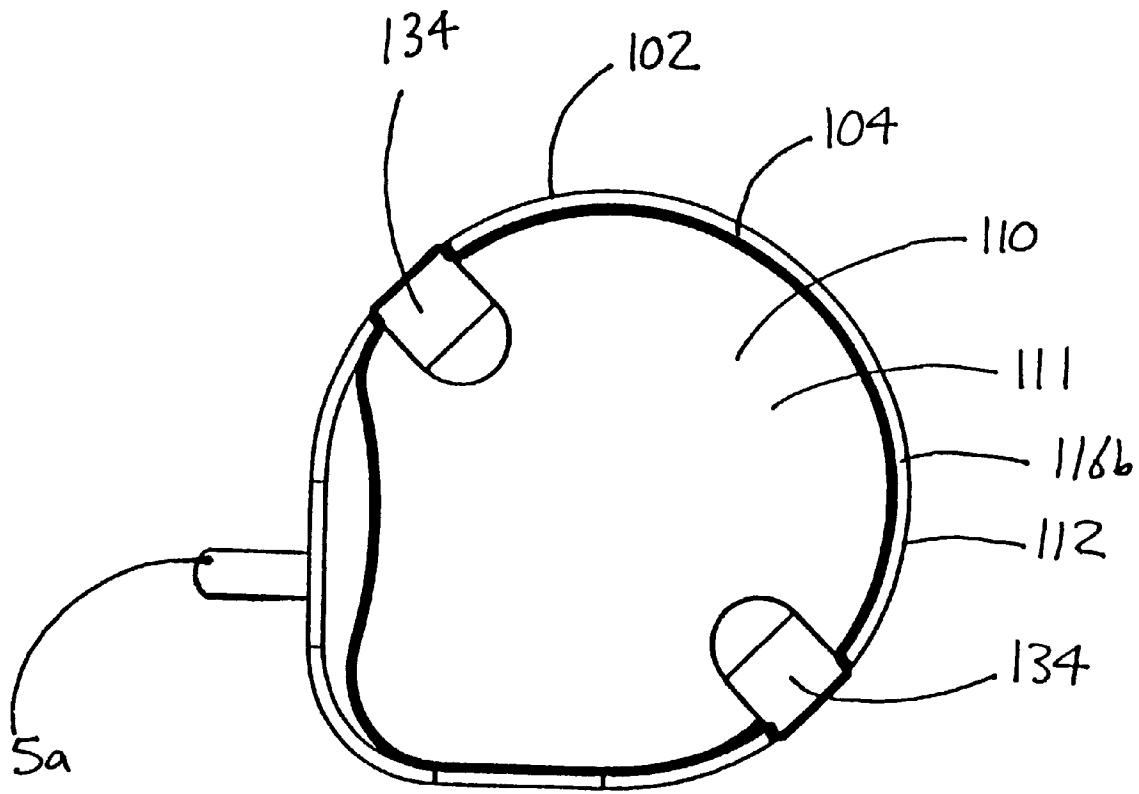
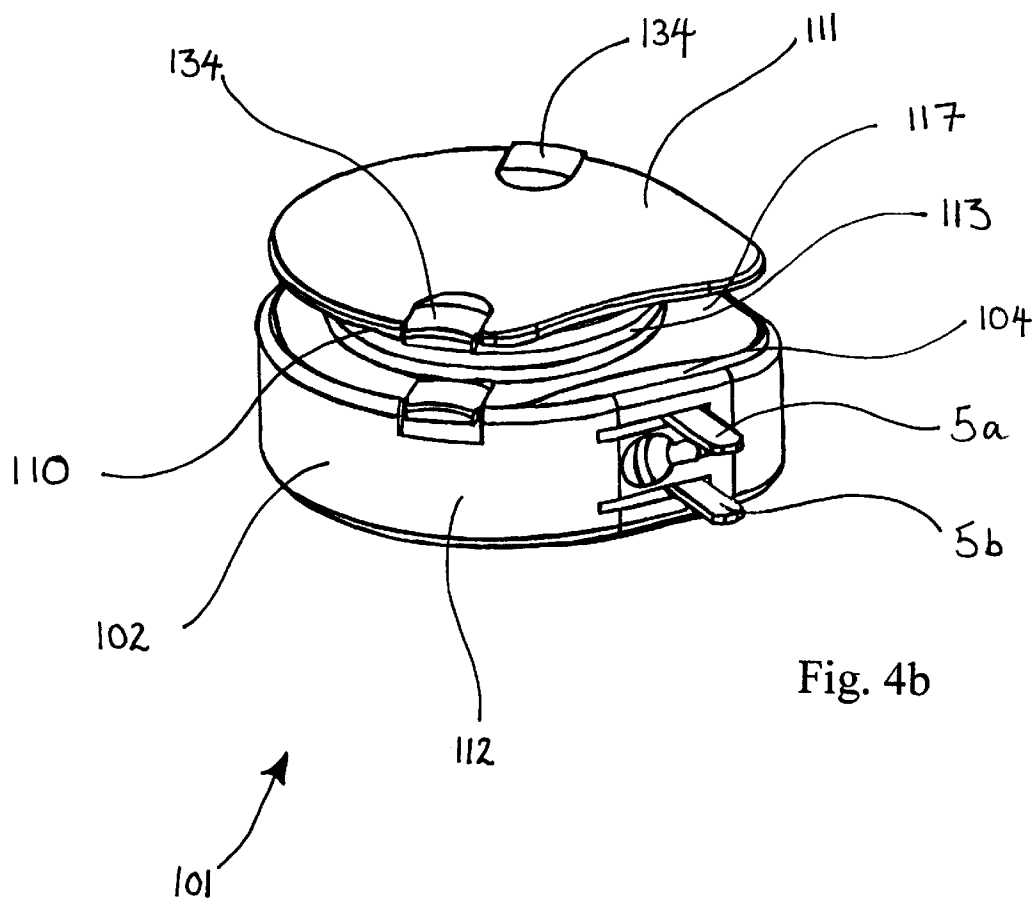
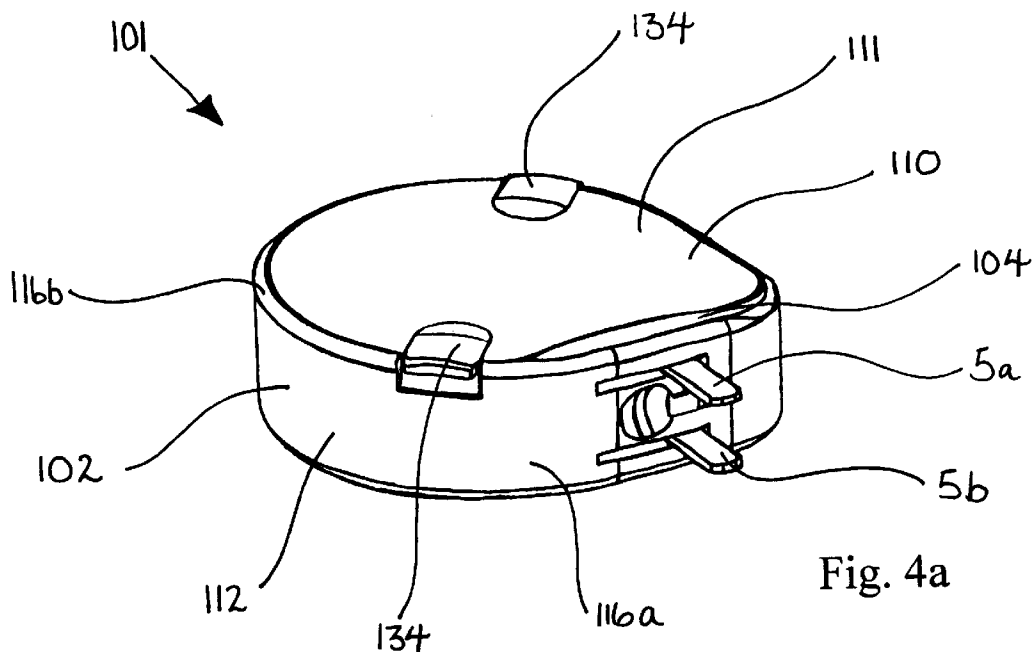


Fig. 3

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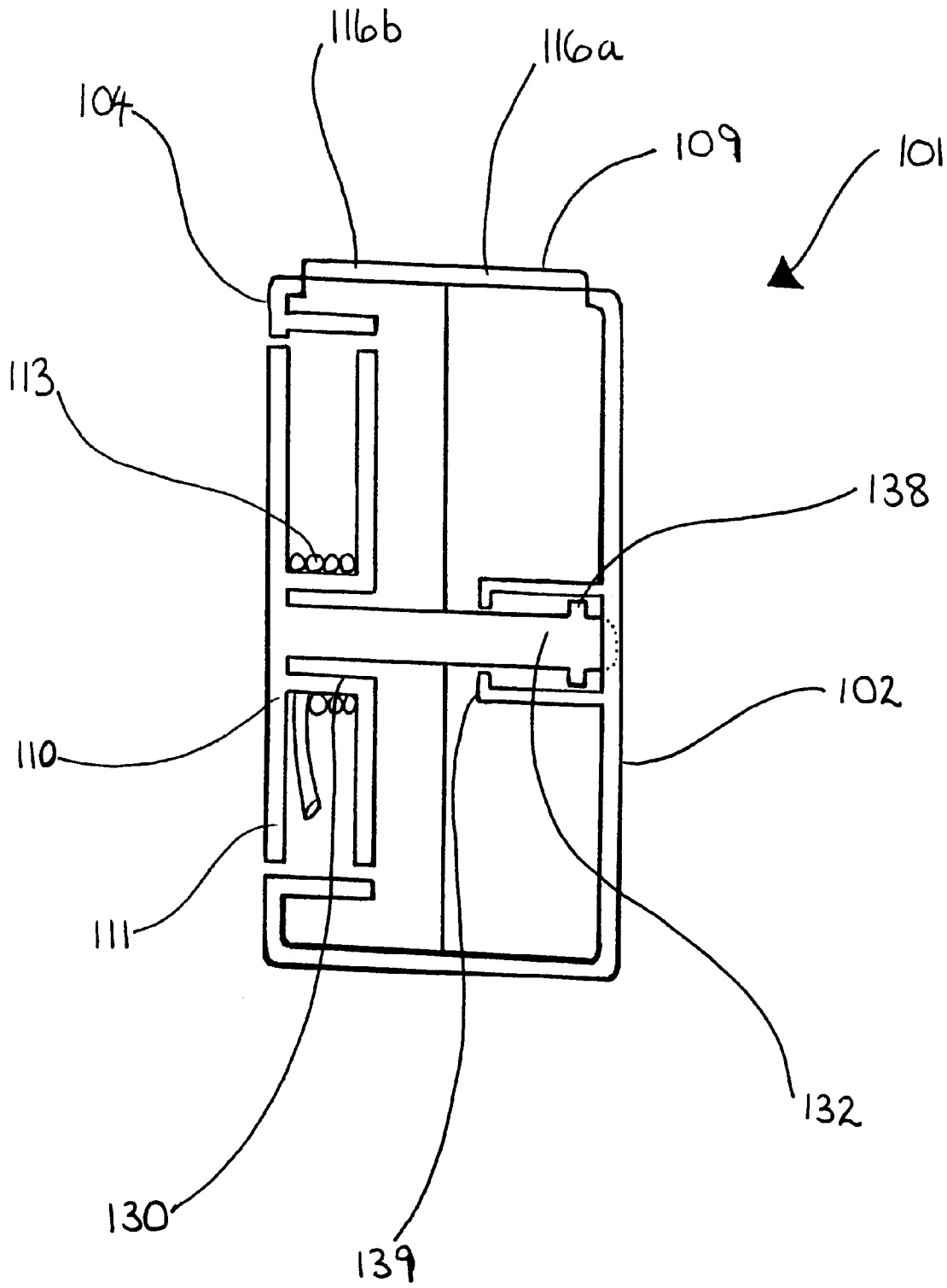


Fig. 5a

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