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Sorias et al.

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(54) **DETACHABLY INTEGRATED BATTERY CHARGER FOR MOBILE CELL PHONES AND LIKE DEVICES**

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This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

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(51) **Int. Cl.**
H04B 1/38 (2015.01)
H04M 1/00 (2006.01)
H04M 19/08 (2006.01)
B25G 3/18 (2006.01)
H02J 7/00 (2006.01)

(52) **U.S. Cl.**
CPC **H04M 19/08** (2013.01); **B25G 3/18** (2013.01); **H02J 7/0044** (2013.01); **Y10T 16/469** (2015.01); **Y10T 16/473** (2015.01); **Y10T 16/4719** (2015.01); **Y10T 16/498** (2015.01); **Y10T 29/49815** (2015.01); **Y10T 29/49817** (2015.01); **Y10T 29/49821** (2015.01)

(58) **Field of Classification Search**
CPC H04B 1/3883; H04M 19/08; H02J 7/0044; H02J 7/045
USPC 455/573, 575.1, 575.6
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,628,641 A 5/1997 Hahn
5,648,712 A 7/1997 Hahn
5,780,993 A 7/1998 Tsang
5,838,554 A 11/1998 Lanni

(Continued)

OTHER PUBLICATIONS

Office Action mailed Sep. 13, 2013 in corresponding U.S. Appl. No. 13/546,307.

(Continued)

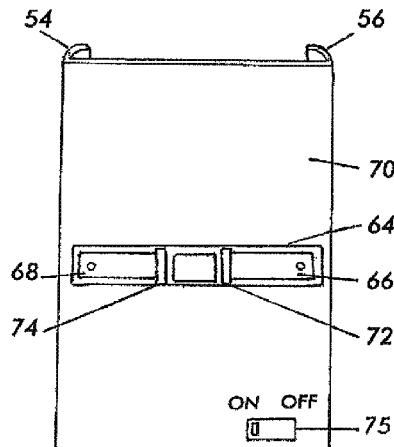
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(57) **ABSTRACT**

A cell phone charger comprises a main body having embedded therein a charging circuit configured to receive line AC voltage and to convert it to a DC voltage suitable for charging the mobile device. AC prongs fold into the body in a stowed position and a connection structure formed integrally with the main body grasps onto and holds the charger secured to the cell phone device. In a preferred embodiment, the AC prongs pivot independently and lie flat against an outside surface of the main body.

5 Claims, 13 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,091,611 A * 7/2000 Lanni 363/79
6,184,652 B1 2/2001 Yang
6,191,553 B1 2/2001 Feng-Jung
6,241,538 B1 6/2001 Chen
6,585,530 B2 7/2003 Steiret et al.
7,039,393 B1 * 5/2006 Kite 455/412.2
7,166,987 B2 1/2007 Lee et al.
7,489,952 B2 2/2009 Simoes et al.
7,520,783 B2 * 4/2009 Chou et al. 439/652
2002/0142812 A1 * 10/2002 Goodman 455/572
2003/0218445 A1 * 11/2003 Behar 320/114
2004/0036449 A1 2/2004 Bean et al.
2005/0088141 A1 * 4/2005 Lee et al. 320/114
2005/0195089 A1 * 9/2005 Shomali 340/652
2007/0236180 A1 * 10/2007 Rodgers 320/115
2008/0157712 A1 * 7/2008 Garcia 320/101

2008/0157715 A1 * 7/2008 Rosenboom et al. 320/108
2011/0159930 A1 * 6/2011 Garrett et al. 455/573
2011/0227535 A1 * 9/2011 Caskey et al. 320/111
2013/0052871 A1 * 2/2013 Eklind 439/620.21

OTHER PUBLICATIONS

Office Action mailed Sep. 4, 2013 in corresponding U.S. Appl. No. 13/348,066.
International Search Report for corresponding Intl Application No. PCT/US2012/021021 mailed on May 29, 2012.
International Search Report for corresponding Int'l Application No. PCT/US2012/021021 mailed on Jul. 16, 2013.
Sorias, et al. v. Nat'l Cellular, et al., First Amended Complaint, Civil Action No. 1:14-cv-2897 dated May 27, 2014.
Sorias, et al. v. Nat'l Cellular, et al., Counterclaim of Defendants Pliner, Gladstone and Prong, LLC, Civil Action No. 1:14-cv-2897 dated Aug. 15, 2014.

* cited by examiner

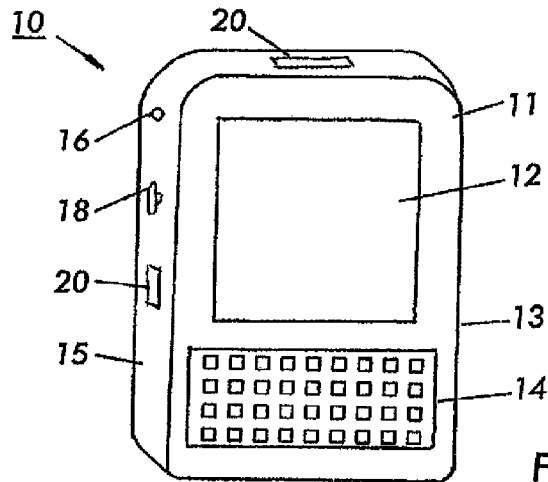


FIG. 1 (PRIOR ART)

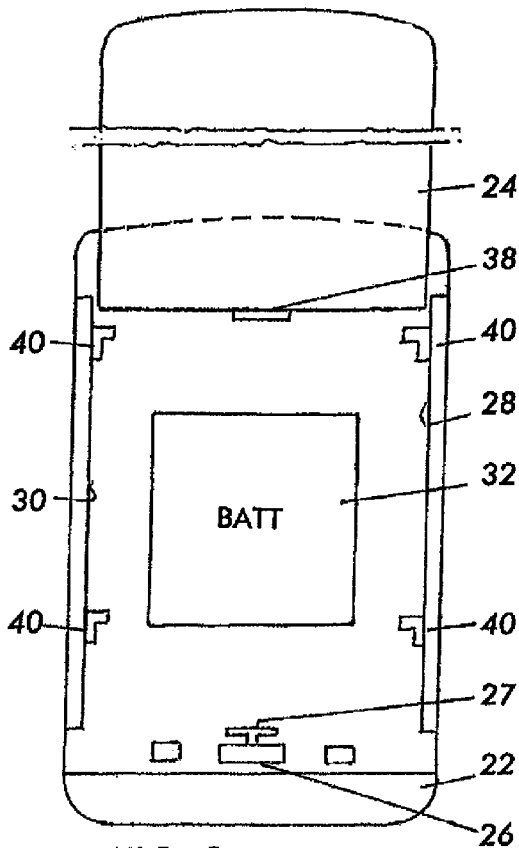


FIG. 2 (PRIOR ART)

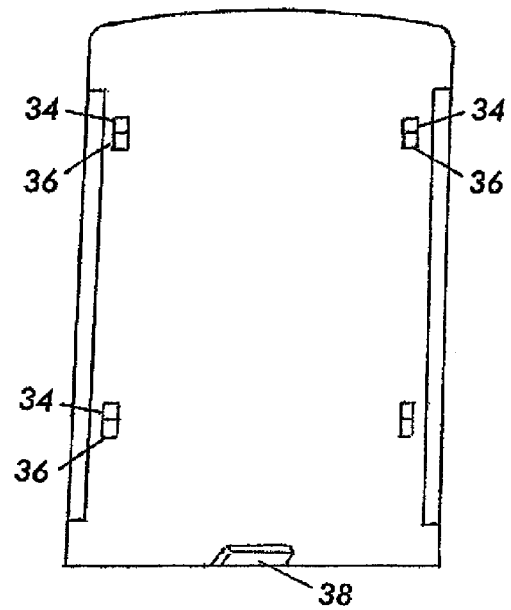


FIG. 2A (PRIOR ART)

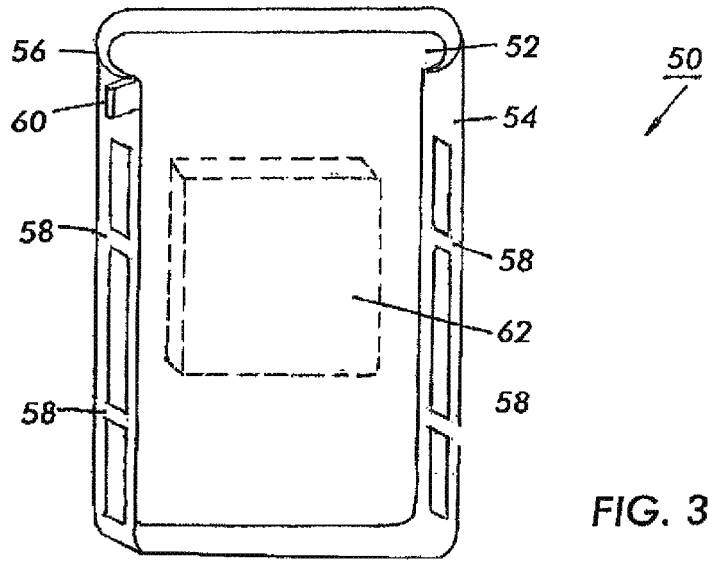


FIG. 3

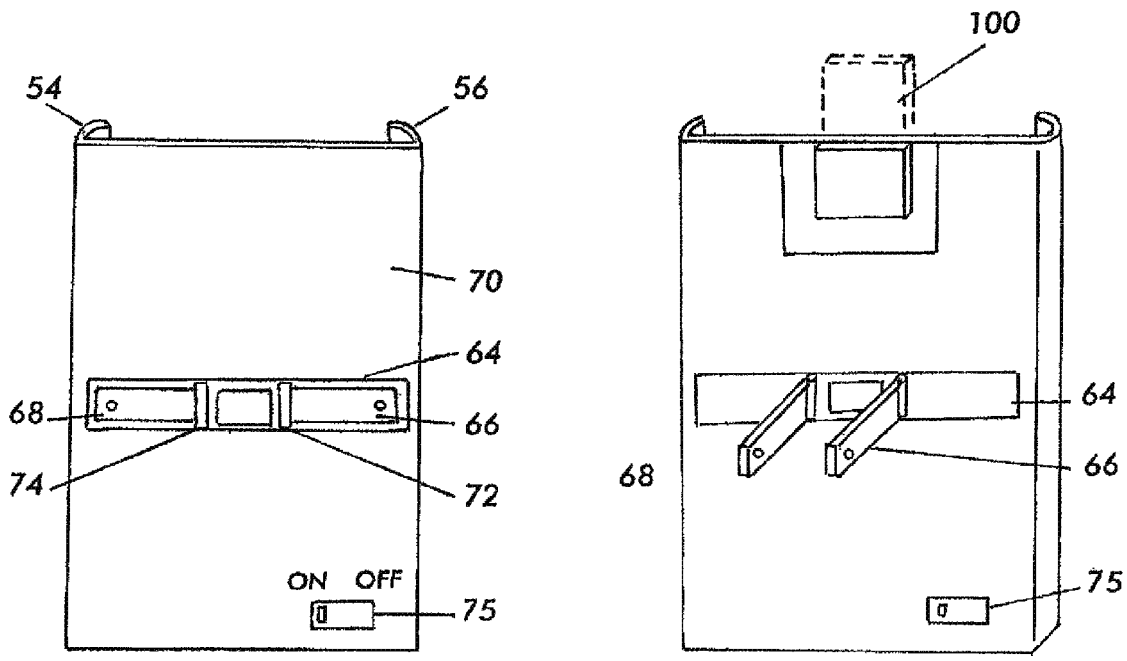


FIG. 3A

FIG. 3B

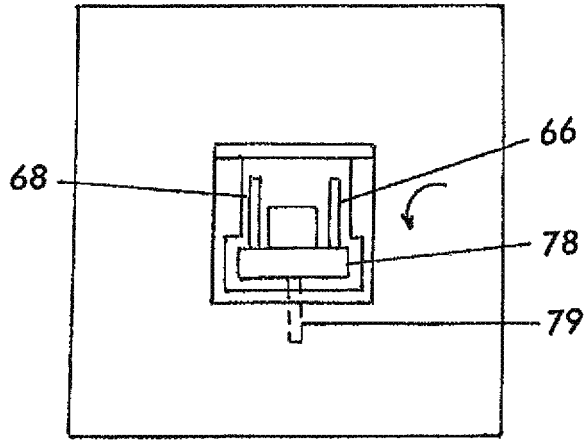


FIG. 3D

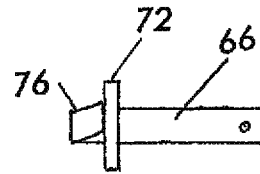


FIG. 3C

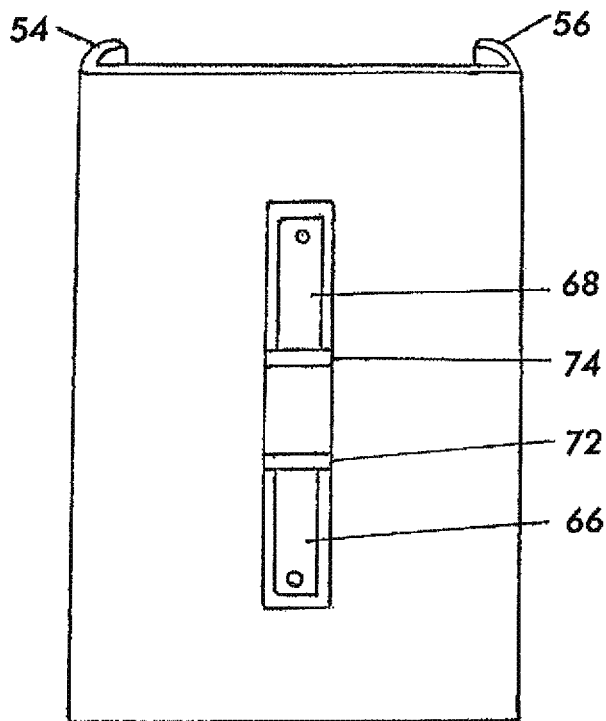


FIG. 3E

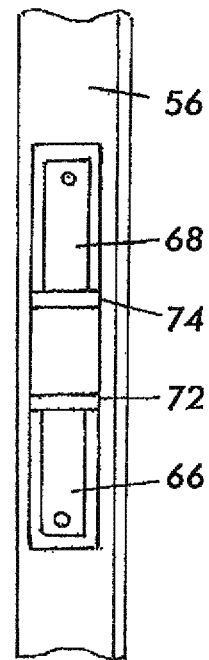


FIG. 3F

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