PTO/AIA/15 (07-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	**ANGD-1082491**
First Inventor	**PLINER, Yishai Z.**
Title	**Smart Phone and/or Consumer Electronics Device Charger System**
Express Mail Label No.	***via* EFS-Web Electronic Filing**

APPLICATION ELEMENTS

See *MPEP chapter 600 concerning utility patent application contents.*

1. ☒ **Electronic Fee Transmittal Form**
2. ☒ **Applicant claims small entity status.** See 37 CFR 1.27.
3. ☒ **Specification+Application Cover Page** [*Total Pages* 17] Both the claims and abstract must start on a new page *(For information on the preferred arrangement, see MPEP 608.01(a))*
4. ☒ **Drawing(s)** (35 U.S. C. *113)* [*Total Sheets* 25]
5. **Oath or Declaration** [*Total Sheets* 3]
   a. ☒ **Newly executed** (original or copy)
   b. ☐ A copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional with Box 18 completed)*
      i. ☐ DELETION OF INVENTOR(s) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☒ **Application Data Sheet.** See 37 CFR 1.76
7. ☐ **CD-ROM or CD-R** in duplicate, large table or Computer Program *(Appendix)*
   ☐ Landscape Table on CD
8. **Nucleotide and/or Amino Acid Sequence Submission** *(if applicable, items a. - c. are required)*
   a. ☐ Computer Readable Form (CRF)
   b. Specification Sequence Listing on:
      i. ☐ CD-ROM or CD-R (2 copies); or
      ii. ☐ Paper
   c. ☐ Statements verifying identity of above copies

ADDRESS TO: **Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450**

ACCOMPANYING APPLICATION PARTS

9. ☒ **Copy of Assignment Papers** (cover sheet & document(s))
   Name of Assignee **ANTHEM GRAND, LLC**
10. ☐ **37 CFR 3.73(b) Statement** *(when there is an assignee)* ☒ **Power of Attorney**
11. ☐ **English Translation Document** *(if applicable)*
12. ☒ **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    ☐ Copies of foreign patent documents, publications, & other information
13. ☐ **Preliminary Amendment**
14. ☐ **Return Receipt Postcard** (MPEP 503) *(Should be specifically itemized)*
15. ☐ **Certified Copy of Priority Document(s)** *(if foreign priority is claimed)*
16. ☐ **Nonpublication Request** under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
17. ☐ Other: _____

* **Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).

(2) For applications filed under 35 U.S.C.111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

☒ The address associated with Customer Number **27111** *OR* ☐ Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature		Date	**October 02, 2012**
Name (Print/Type)	**David R. Heckadon**	Registration No. (Attorney/Agent)	**50,184**

UTILITY APPLICATION

for

UNITED STATES LETTERS PATENT

on

SMART PHONE AND/OR CONSUMER ELECTRONICS DEVICE CHARGER SYSTEM

By

YISHAI Z. PLINER
New York, NY, U.S.A.

and

LLOYD GLADSTONE
Boca Raton, FL, U.S.A.

Docket No.: ANGD-1082491
Drawings: 24 Sheets

Attorneys
GORDON & REES LLP
101 West Broadway, Suite 1600
San Diego, California 92101
Phone: (415) 875-3266 (direct)
Phone: (415) 986-5900 (main)
Facsimile: (415) 986-8054
E-mail: ipdocket@gordonrees.com

CERTIFICATE OF MAILING OR TRANSMISSION

I HEREBY CERTIFY THAT THIS PAPER IS BEING FILED ELECTRONICALLY ON THE USPTO EFS-WEB E-FILING SYSTEM ON OCTOBER 02, 2012.

SMART PHONE AND/OR CONSUMER ELECTRONICS DEVICE CHARGER SYSTEM

RELATED APPLICATION:

[0001] The present application claims priority to US Provisional Patent Applications 61/544,194, filed October 06, 2011, entitled "Smart Phone Charger System," and to 61/605,118, filed February 29, 2012, entitled "Smart Phone and/or Consumer Electronics Device Charger System," for which both applications are incorporated herein by reference in their entirety.

TECHNICAL FIELD:

[0002] The present invention relates to chargers for electronic devices such as smart phones (including iPhones™, iPads™, etc.), and also to chargers for other consumer electronics devices.

BACKGROUND OF THE INVENTION:

[0003] People rely more and more on their smart phones and these devices are being used for more and more hours of the day. Unfortunately, smart phones tend to be "battery hogs" that consume a significant amount of energy. In many regards, the biggest limitation to these devices is their (relatively short) battery life. They all typically require a daily charging.

[0004] Numerous charging devices already exist for phones and smart phones. Typically, these charging devices include standard plug-in wall cords, and/or power cords that plug into computer USB ports. Many users do not find it convenient to rely on these long charging cables. It's inconvenient to carry them around, and it's also inconvenient to always have to return your smart phone to the same spot to charge it up at the end of the day. Therefore, other solutions on the market include battery packs that fasten

directly onto the phone or are connected to the phone by a short plug in cable. The main problem with these devices is their added bulk and weight.

[0005] An example of a charging device for a consumer electronics product is found in US Patent 7,938,653. This device is simply a folding plug at the end of a charging cord. The plug has a pair of plug blades that fold down one on top of the other. The blades rotate in the same direction as they are deployed. This blade folding arrangement unfortunately requires a deep trough into which both blades are folded (one sitting on top of another). In addition, this trough extends fully out the side of the device such that the user must insert their finger and pull upwardly on one of the blades, thereby causing both blades to rotate into position. A primary disadvantage of this system is that the two blades are folded one on top of another. This requires a deep channel/trough into which both blades must be folded. Another disadvantage of this system is that this channel/trough must extend fully out of the side of the device. In addition, one of the blades must have its tip positioned near the end of the channel/trough at the side of the device such that the user's fingers can grip onto it. As a result, the position of the two blades is effectively fixed with respect to the sides of the device.

[0006] It would instead be desirable to overcome the limitations of the '653 patent's folding plug blades. For example, it would be desirable to provide a plug that can be stored without requiring a deep channel into which two blades are folded one on top of one another. It would also be desirable to provide a system in which the user does not have to grasp onto the ends of one of the blades to deploy them. Instead, it would be desirable to provide a system in which the blades automatically deploy at the push of a button under the user's command. It would also be desirable to provide a system in which the blades can be centrally located on the back of the device being charged if desired. Lastly, it would be desirable to completely avoid the charging cord itself, for example when charging an iPhone™ or other smart phone.

[0007] What is instead desired when charging smart phones in particular is a system that uses standard wall power AC outlets, but also avoids the use of a large, bulky extra

battery pack. It is also desirable for such a system to completely avoid the use of long power cables running from a charger to the device being charged.

SUMMARY OF THE INVENTION:

[0008] The present invention provides a charging device having a pair of rotatable blades or pins. The blades are rotatable from a deployed position in which ends of the blades are inserted into a standard AC wall outlet to a retracted position in which the ends of the blades are spread apart from one another and lie flat against the charger to decrease the overall thickness of the charger.

[0009] The most important advantage of the present invention is that it reduces the overall thickness of the charger itself. Specifically, the plug-in blades are rotated from the parallel orientation (i.e.: in which they are inserted in a standard wall outlet) down to a flattened orientation in which they are instead positioned in the same plane.

[0010] In various embodiments, the present rotatable plug charger is built into (or onto) the body of the smart phone. Alternatively, it may be a separate device that is connected onto the back or bottom of the smart phone. As will be shown, however, the present folding blade charging device can also be used with other suitable consumer electronics devices (for example, battery rechargers, electric toothbrushes, shavers, etc.). In further embodiments, it may be a separate device that is attached by a short cable to the smart phone.

BRIEF DESCRIPTION OF THE DRAWINGS:

[0011] Fig. 1A is a bottom perspective view of a first embodiment of the invention in a retracted position.

[0012] Fig. 1B is a bottom perspective view of the first embodiment of the invention in a deployed position.

[0013] Fig. 1C is a top perspective view of the first embodiment of the invention.

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.