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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

Proceeding	91184197
Party	Defendant POWERTECH INDUSTRIAL CO., LTD.
Correspondence Address	MORTON J. ROSENBERG ROSENBERG, KLEIN AND LEE 3458 ELLICOTT CENTER DR STE 101 ELLICOTT CITY, MD 21043-4178 UNITED STATES rkl@rkpatlaw.com
Submission	Answer
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Date	09/04/2009
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

UNITED PARCEL SERVICE OF AMERICA, INC., :

Opposer, : Opposition No. 91184197

v. : Serial No. 77/176,134

POWERTECH INDUSTRIAL CO., LTD., :

Applicant :

APPLICANT'S ANSWER TO AMENDED NOTICE OF OPPOSITION

Applicant, Powertech Industrial Co., Ltd., by the undersigned attorney, hereby answers each of the allegations in the Amended Notice of Opposition made by Opposer.

(1) Applicant is without knowledge or information to form a belief as to the allegations of the Opposer in Paragraph 1 of the Amended Notice of Opposition and therefore denies same.

(2) Applicant is without knowledge or information to form a belief as to the allegations of the Opposer in Paragraph 2 of the Amended Notice of Opposition and therefore denies same.

(3) Applicant is without knowledge or information to form a belief as to the allegations of the Opposer in Paragraph 3 of the Amended Notice of Opposition and therefore denies same.

(4) Applicant admits in part and denies in part the allegations made in Paragraph 4 of the Amended Notice of Opposition. Applicant admits that a search

of the website of the U.S. Patent and Trademark Office lists Registration Nos. 514,285 (Exhibit A attached); 966,774 (Exhibit B attached); 1,277,400 (Exhibit C attached); 1,375,109 (Exhibit D attached); 1,460,348 (Exhibit E attached); 1,874,248 (Exhibit F attached); 1,876,943 (Exhibit G attached); 1,878,016 (Exhibit H attached); 1,878,918 (Exhibit I attached); 2,098,168 (Exhibit J attached); 2,128,739 (Exhibit K attached); 2,278,090 (Exhibit L attached); 2,582,489 (Exhibit M attached); 2,830,249 (Exhibit N attached); 2,483,193 (Exhibit O attached); 3,160,062 (Exhibit P attached); 2,520,558 (Exhibit Q attached); and 2,973,108 (Exhibit R attached) as being registered by United Parcel Service of America, Inc., however, Applicant is without knowledge or information as to the current state of ownership of these Registrations and therefore denies same. Additionally, Applicant is without knowledge or information to form a belief as to the present validity and status of these listed Trademark Registrations and therefore denies same.

(5) Applicant is without knowledge or information to form a belief as to the allegations of the Opposer in Paragraph 5 of the Amended Notice of Opposition and therefore denies same.

(6) Applicant is without knowledge or information to form a belief as to the allegation of the Opposer in Paragraph 6 of the Amended Notice of Opposition and therefore denies same.

(7) Applicant is without knowledge as to the “information and belief” of the Opposer with relation to other parties using the Federal Registered Marks

complained of that are the same or substantially similar to Opposer's marks for the same or substantially similar services and therefore denies the allegations made in Paragraph 7 of the Amended Notice of Opposition and leaves the Opposer to its proofs.

(8) Applicant admits the allegations alleged in Paragraph 8 of the Amended Notice of Opposition.

(9) Applicant has found no other mark in use for Applicant's goods directed to Applicant's mark "HYBRID GREEN UPS" and based upon the constructive use of the mark with respect to Applicant's filing date before the U.S. Patent and Trademark Office of 9 May 2007, denies the allegations in Paragraph 9 of the Amended Notice of Opposition.

(10) Applicant is without knowledge or information to form a belief as the allegations of the Opposer in Paragraph 10 of the Amended Notice of Opposition and therefore denies same.

(11) Applicant is without knowledge or information to form a belief as to the allegations of the Opposer in Paragraph 11 of the Amended Notice of Opposition and therefore denies same.

(12) Applicant denies the allegations made by the Opposer in Paragraph 12 of the Amended Notice of Opposition.

(13) Applicant denies the allegations made by the Opposer in Paragraph 13 of the Amended Notice of Opposition.

(14) Applicant denies the allegations made by the Opposer in Paragraph 14 of the Amended Notice of Opposition.

(15) Applicant admits the allegations of the Opposer in Paragraph 15 of the Amended Notice of Opposition.

(16) Applicant admits in part and denies in part the allegations of the Opposer in Paragraph 16 of the Amended Notice of Opposition. As to the allegation that Applicant intends to offer goods in connection with the designation “HYBRID GREEN UPS” that are energy efficient, Applicant admits to the extent that Applicant hopes that its goods are “energy efficient” (as do all producers of goods). As to the allegation that Applicant intends to offer goods in connection with the designation “HYBRID GREEN UPS” which would operate on “multiple energy sources”, Applicant believes that the term is vague and indefinite, where the term may be used to designate more than one power source being used simultaneously, or the use of different power sources alternatively, and thus denies same.

(17) Applicant denies the allegations made by the Opposer in Paragraph 17 of the Amended Notice of Opposition since the term “HYBRID GREEN UPS” has no meaning except in a trademark sense.

(18) Applicant is without knowledge or information to form a belief as to the allegations of the Opposer in Paragraph 18 of the Amended Notice of Opposition with regard to Opposer’s allegation that the UPS mark is “famous”, and therefore denies same. Applicant denies the allegations made in Paragraph 18

of the Amended Notice of Opposition with respect to Opposer's allegation that Applicant's goods would cause dilution of the quality of Opposer's UPS mark.

(19) Applicant is without knowledge or information to form a belief as to the allegations of the Opposer in Paragraph 19 of the Amended Notice of Opposition and therefore denies same.

(20) Applicant admits in part and denies in part the allegations made in Paragraph 20 of the Amended Notice of Opposition. Applicant admits that Applicant's application, Serial No. 77/176,134, was filed on 9 May 2007. Applicant is without knowledge or information to form a belief as to the allegations of the Opposer in Paragraph 20 of the Amended Notice of Opposition relating to Opposer's statement that Applicant's application would be subject to the provisions of Section 13 and 43(c) of the Lanham Act, as amended, and therefore denies same.

(21) Applicant denies the allegations made in Paragraph 21 of the Amended Notice of Opposition.

(22) Applicant admits in part and denies in part the allegations made in Paragraph 22 of the Amended Notice of Opposition. Applicant admits that Applicant's registration of Applicant's mark would constitute *prima facie* evidence of Applicant's exclusive right to use Applicant's designation for and in connection with Applicant's goods. Applicant denies Opposer's allegation that Opposer will be damaged by the registration sought by Applicant in Paragraph 22 of the Amended Notice of Opposition. Applicant denies that Applicant's

MR2349-1569/OPP

registration of Applicant's application would be inconsistent and detrimental to Opposer's alleged prior, established and superior rights in the UPS mark.

FURTHER DEFENSES

(23) Applicant, in the following paragraph provides the TTAB some defenses which respond to Opposer's allegations made in the Amended Notice of Opposition. Applicant reserves the right to develop further defenses during the Discovery Phase of the Opposition.

(24) Applicant filed the subject trademark application, Serial No. 77/176,134 in the U.S. Patent and Trademark Office on 9 May 2007. The subject trademark application was filed in International Class 9 for "power supplies; mobile phone chargers; mobile phone charger stations; battery chargers; UPS power supplies; power saving adapters; power source storages; uninterruptible power supplies (UPS); AC/DC converters; power source stable adapters".

It was clear from the Identification of the Goods that the "UPS" referred to uninterruptible power supplies (also commonly referred to uninterruptible power supplies).

In an interview held with the Trademark Examining Attorney, the Trademark Examining Attorney indicated that Applicant is required to disclaim the "UPS" apart from the mark as shown which was agreed to by Applicant.

In the Official Action dated 23 August 2007, the Trademark Examining Attorney at the U.S. Patent and Trademark Office suggested the Identified of the Goods to read: "power supplies; mobile phone battery chargers; mobile phone battery charger stations; battery chargers; universal power supplies;

power saving adapters; electric storage batteries; uninterruptible power supplies; AC/DC converters; power source stable adapters.”

Applicant agreed to the suggested wording by the Trademark Examining Attorney of the U.S. Patent and Trademark Office and the application was published.

The Trademark Examining Attorney indicated that after a search of the Office Records, that there was no similar registered or pending mark which would bar registration under Trademark Act Section 2(d). Thus, the subject trademark application, after having been searched by the Trademark Examining Attorney, was found to be suitable for registration and not confusingly similar to any registered or pending mark at that time.

(25) Opposer has apparently filed the Amended Notice of Opposition based upon Registration No. 514,285 (Exhibit A); Registration No. 966,774 (Exhibit B); Registration No. 1,277,400 (Exhibit C); Registration No. 1,375,109 (Exhibit D); Registration No. 1,460,348 (Exhibit E); Registration No. 1,874,248 (Exhibit F); Registration No. 1,876,943 (Exhibit G); Registration No. 1,878,016 (Exhibit H); and Registration No. 1,878,918 (Exhibit I), all directed to marks using the letters “UPS” for various transportation and delivery services.

Additionally, the Opposition was apparently further brought based upon Registration No. 2,098,168 (Exhibit J); Registration No. 2,128,739 (Exhibit K); Registration No. 2,278,090 (Exhibit L); Registration No. 2,582,489 (Exhibit M); Registration No. 2,830,249 (Exhibit N); Registration No. 2,483,193 (Exhibit

O); Registration No. 3,160,062 (Exhibit P); Registration No. 2,520,558 (Exhibit Q); and Registration No. 2,973,108 (Exhibit R) which have been registered in at least International Class 9.

The goods associated with the Registrations in International Class 9 are generally directed to computer programs, software and hardware for the printing of shipping documents and invoices as well as tracking the shipped packaged and delivery of personal property.

(26) Applicant's mark is "HYBRID GREEN UPS" and is directed to the entire word mark. A basic and fundamental principle of trademark law is that marks must be compared in their entireties and not dissected. When articulating reasons for reaching a conclusion on the issue of confusion, there may be nothing improper in stating the more or less weight has been given to a particular feature of the mark, however, the ultimate conclusion must rest in the consideration of the marks in their entireties. See *In re National Data Corp.*, 753 F.2d 1056 (Fed. Cir. 1985).

(27) When taken in its entirety, Applicant's mark creates an entirely different commercial and visual impression than Opposer's marks. When making a side-by-side comparison between the marks at issue, it is believed that the visual impression of Applicant's mark and Opposer's Registrations are completely different in appearance and thus, there would be no cause for confusion, or even a determination of similarity between the marks.

In none of the marks cited by the Opposer, is the terminology “GREEN HYBRID” noted or any similar combination of words are seen.

(28) Applicant’s mark and Opposer’s marks all include the letters “UPS” and Applicant submits that the common portion of the marks at issue, namely, “UPS”, is a commonly used acronym standing for “uninterruptible power system” and “universal power supply”. This commonly used acronym is used by many third party registrants and further, by numerous parties in the field of power supplies.

A brief check on the internet of “www.acronymfinder.com” (Exhibit S) clearly shows that the letters “UPS” is used descriptively for uninterrupted power sources and uninterrupted power supplies. This terminology of “UPS” has clearly become descriptive in the power supply channels of trade.

Numerous articles relating to power supply systems commonly use the letters “UPS” for such uninterruptible power supplies or universal power supplies as is clearly seen in an article in Wikipedia (Exhibit T). This article, one of many, relates to “UPS technologies” and shows that the letters “UPS” are commonly understood among those in the power supply channels of trade to represent universal power supply or uninterrupted power supply.

A further search on the internet provides for the definition of UPS to be a well known abbreviation for uninterruptible power supply as is evidenced by the Merriam-Webster on-line printout Exhibit U, Compact Oxford Dictionary addressable at askoxford.com as is provided in Exhibit B, encarta.man.com,

Exhibit W, foldoc.org, Exhibit X, webopedia.com, Exhibit Y, yourdictionary.com, Exhibit Z, as well as numerous other websites found on the internet.

(29) Applicant further submits that the common portion of the marks at issue, “UPS”, are further inherently weak and that Applicant’s use will not give rise to any likelihood of confusion (especially in the channels of trade of Applicant and Opposer). Where common elements of conflicting marks may be words or letters that are weak, this fact reduces the likelihood of confusion. See *Smith v. Tobacco Byproducts & Chemical Corp.*, 243, F.2d 188 (CCPA 1957).

(30) “UPS” is a well recognized abbreviation and acronym for “uninterruptible power supply” and “universal power supply.” The letters “UPS” and variations thereof are commonly used by many other registrants and sellers in the marketplace. This is evidenced by a number of third party marks registered on the Principal Register which include the letters “UPS” and variations thereof. The undersigned attorney, after making a brief search of the Office Records of the U.S. Patent and Trademark Office, has found a number of marks for the letters “UPS” and variations thereof which have been registered by the USPTO for goods in International Class 009. A representative sampling of the marks found are as follows (copies enclosed):

Exhibit	Mark	Reg. No.	Goods/Services
AA	BACK-UPS	1,689,902	Uninterruptible power supplies
BB	SMART-UPS	1,689,903	Uninterruptible power supplies

CC	UPS PLUS	1,749,282	Electrical and electronic equipment; namely, power supplies, voltage regulators, frequency/voltage converters, uninterruptible power supplies and power supply modules for use with computer systems, industrial control devices, test instrumentation and microprocessor-based devices
DD	MEASURE-UPS	1,811,966	Electronic apparatus for use with uninterruptible power supplies for the purpose of detecting environmental and security anomalies in computer rooms
EE	BACK-UPS PRO	1,921,637	Uninterruptible power supplies (used as a backup power supply) for computers and other sensitive electronic equipment
FF	WINUPS	2,067,751	Computer software, namely software for use in the custom design and configuration of power systems
GG	TELE-UPS	2,703,362	Power protection devices, namely uninterruptible power supplies for use as a backup power supply for computers, telephone systems and other electronic equipment
HH	TACTICAL UPS	3,444,320	Automated process control system, namely, micro-processor based hardware and software, etc., including power supplies and renewable battery system to provide backup power
II	EXTREME UPS	3,444,309	Electrical power distribution units; etc.

JJ	LEV-UPS	2,991,164	Uninterruptible power supply for microprocessor based products
KK	UPS ENHANCER	2,682,042	Voltage sag protectors for use in maintaining operation of sensitive electrical equipment, etc.
LL	MATRIX UPS	2,168,971	Modular uninterruptible power supplies for computers, and other sensitive electronic equipment
MM	BACK-UPS OFFICE	2,106,783	Power protection devices, namely, uninterruptible power supplies for use with computers and other sensitive electronic devices
NN	ROBOT/UPS	1,978,481	Computer programs for automating the shutdown and power-up of computers in response to power failures

(31) The concurrent registration of marks consisting of the letters “UPS”, particularly in International Class 009 and variations thereof, establishes that the United States Patent and Trademark Office recognizes that such a term (especially in the field of power supply systems) is entitled to a relatively narrow scope of protection and that the person who purchases such goods can readily distinguish between the marks containing such letters without any confusion.

(32) A trademark is given protection against use of its mark on any product or services which would reasonably be thought by the buying public to come from the same source. However, there is absolutely no foundation for

suggesting that the buying public would confuse package transit and delivery equipment and uninterruptible power supply hardware.

(33) When making purchasing decisions regarding goods, the reasonably prudent person standard of trademark law is elevated to the standard of the “discriminating purchaser”. See *L. J. Mueller Furnace Co. v. United Conditioning Corp.*, 222 F.2d 755, 106 USPQ 112 (CCPA 1955).

(34) Uninterruptible power supplies/universal power supplies and associated goods are undeniably expensive goods and the purchasers of such electrical supplies would be considered “discriminating purchasers” having a high degree of sophistication in their purchasing. A sophisticated consumer would undoubtedly be able to distinguish between highly specialized electrical power supply systems and peripheral equipment with hand-held computers and associated software for package delivery and the uninterruptible power supplies and related hardware of Applicant’s mark.

(35) The term “UPS” is well known in the computer and information technology fields as being an abbreviation for “uninterruptible power supply” and “universal power supply”. Those who are in the channels of trade related to the goods of Applicant’s mark would readily associate the term “UPS” with uninterruptible power supply and not with any hardware associated with the delivery related goods and services of Opposer.

(36) The term “HYBRID GREEN” has no meaning with respect to any feature or quality of power supplies, mobile phone battery chargers, mobile phone

battery charger stations, battery chargers, universal power supplies, power saving adapters, electric storage batteries, uninterruptible power supplies, AC/DC converters, and power source stable adapters. Applicant has prosecuted before the U.S. Patent and Trademark Office Registration No. 3,550,928 (Exhibit OO) and Registration No. 3,550,927 (Exhibit PP) which were fully prosecuted at the U.S. Patent and Trademark Office. The USPTO did not require disclaiming of the words "HYBRID GREEN" or portions thereof during the full prosecution of each of these Registrations. Both of these Registrations are in full force and effect and are owned by Applicant.

(37) The word "GREEN" is not directed to a feature or quality of Applicant's goods. Applicant's goods are classified in International Class 9 and many marks have been issued by the U.S. Patent and Trademark Office utilizing the term "GREEN" without any disclaimer being required. Generally, the term "GREEN" may be argued with respect to a disclaimer for goods which are in a category where ecological considerations are paramount, however, in the goods identified by Applicant such word "GREEN" has no meaning. It is believed by Applicant that any corporation producing products does not intend to produce a product which is non-ecologically friendly, however, in the nature of Applicant's goods, Applicant hopes that its goods are ecologically friendly. However, this is not the main issue or direct characteristic of Applicant's goods. There are numerous examples of the word "GREEN" being used for goods analogous to Applicant's goods and such Registrations were not required by the USPTO to

disclaim the word "GREEN". The following table provides for Registrations which are in full force and effect and have been granted to various Registrants without a disclaimer of the word "GREEN".

Exhibit	Mark	Reg. No.	Goods
QQ	GREEN CELL	3,538,919	Batteries
RR	WELL GREEN & Design	3,467,834	Monitors for computer, cathode ray tubes, plasma display panels, computers, electric discharge tubes other for lighting, TV receivers, field emission displays
SS	GREEN ICE	3,442,429	Computer hardware, namely, computer semiconductors, microprocessors, semiconductor devices, integrated circuits, etc.
TT	GREEN ARC	3,268,592	Charging appliances for rechargeable accumulators, electric arc welders, etc.
UU	CLEAN GREEN POWER MACHINE	3,083,913	Solar energy systems, namely, portable solar power stations comprised of solar collectors, panels, electric modules, and power control systems comprised of inverters and charge controllers

The above referenced Exhibits QQ-UU are all directed to goods which are sold in the same channels of trade as the subject Applicant's goods. The word

“GREEN” with respect to such goods does not show any quality, feature or description of the goods in International Class 9.

(38) The term “HYBRID” when applied to Applicant’s goods has no meaning except in the trademark sense. Numerous marks have been issued by the U.S. Patent and Trademark Office for International Class 9 goods which include the word “HYBRID” without requiring a disclaimer. The following marks which have recently been issued by the U.S. Patent and Trademark Office include the term “HYBRID” in goods which are somewhat analogous to Applicant’s goods and the USPTO did not require a disclaimer since the word “HYBRID” does not show a particular characteristic, quality or feature of the mark except as it is used in a trademark sense. A brief search of the USPTO Records for marks which are currently in effect include:

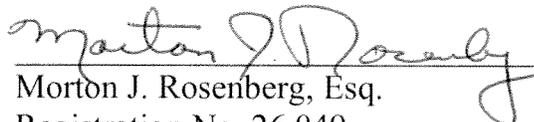
Exhibit	Mark	Reg. No.	Goods
VV	DIGITAL HYBRID WIRELESS	3,571,724	Wireless microphone transmitters and receivers
WW	HYBRIDPACK	3,606,753	Integrated circuits chips, namely, computer chips, semiconductor components, etc.
XX	HYBRID	3,349,399	Computer graphic cards, blank magnetic card carriers, blank magnetic cards for storage or computer information

The above are representations of marks using "HYBRID" which have been recently issued by the USPTO without any disclaimer associated with the word "HYBRID".

THEREFORE, having made full answer to the Amended Notice of Opposition, Applicant prays that the Opposition be dismissed.

For: ROSENBERG, KLEIN & LEE

9/4/09
Dated

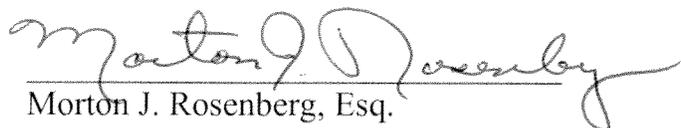

Morton J. Rosenberg, Esq.
Registration No. 26,049
Attorney for Applicant

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Ellicott City, MD 21043
Tel: 410-465-6678

CERTIFICATE OF SERVICE

The undersigned attorney hereby certifies that a copy of the foregoing Applicant's Answer to Amended Notice of Opposition was served on the Opposer by mailing a true copy thereof by electronic mail and first class postage, prepaid, to: Stephen M. Schaezel, King & Spalding LLP, 1180 Peachtree Street, N.E., Atlanta, Georgia 30309-3521, sschaetzel@kslaw.com

This 4TH day of September 2009.


Morton J. Rosenberg, Esq.

CERTIFICATE OF ELECTRONIC TRANSMISSION

I hereby certify that this paper is being transmitted electronically to the U.S.

Patent and Trademark office on the date shown below.

For: ROSENBERG, KLEIN & LEE

4 September 2009

/Morton J. Rosenberg/
Morton J. Rosenberg

Registered Aug. 23, 1949

Registration No. 514,285

PRINCIPAL REGISTER
Service Mark

UNITED STATES PATENT OFFICE

United Parcel Service of America, Inc.,
Wilmington, Del.

Act of 1946

Application September 2, 1947, Serial No. 533,084



(Statement)

United Parcel Service of America, Inc., a corporation duly organized under the laws of the State of Delaware and located at 100 West 10th Street, Wilmington, Delaware, has adopted and of itself and through its subsidiaries, is using the service mark shown in the accompanying drawing, for MOTOR VEHICLE DELIVERY SERVICE FOR RETAIL STORES, in Class 55, Services, and presents herewith five specimens showing said service mark as actually used in connection with the sale of such services; said service mark being used by applying it to building fronts, motor vehicle bodies, literature, stationery, business forms and business cards; and requests that the same be registered in the United States Patent Office on the Principal Register in accordance with the act of July 5, 1946.

The service mark was first used in 1933, and first used in the sale or advertising of services and the services rendered in commerce among the several States which may lawfully be regulated by Congress in 1933.

All wording appearing in the drawing of the mark including the words "Since 1907," but excepting the letters "U P S," are disclaimed apart from the mark as shown.

(Declaration)

Paul Oberkotter, being duly sworn, deposes and says that he is the secretary of the corporation, the applicant named in the foregoing statement; that he believes the foregoing statement to be true; that he believes said corporation is the owner of the service mark sought to be registered and which is used in interstate commerce, and that no other person, firm, corporation or association other than its own subsidiaries, to the best of his knowledge and belief, has the right to use such mark in commerce which may lawfully be regulated by Congress either in the identical form thereof, or in such near resemblance thereto as might be calculated to deceive; that the drawing and description truly represent the service mark sought to be registered; and that the booklet entitled, "A Good Idea and How it Grew," copies of which are submitted herewith, show the service mark as actually used in connection with the sale of services.

UNITED PARCEL SERVICE
OF AMERICA, INC.,
By PAUL OBERKOTTER,
Secretary.

Int. Cl.: 39

Prior U.S. Cl.: 105

United States Patent and Trademark Office
Renewal

Reg. No. 514,285
Registered Aug. 23, 1949
OG Date Oct. 17, 1989

SERVICE MARK
PRINCIPAL REGISTER



UNITED PARCEL SERVICE OF AMERICA, INC. (DELAWARE CORPORATION)
GREENWICH OFFICE PARK 5
51 WEAVER STREET
GREENWICH, CT 06836

ALL WORDING APPEARING IN THE DRAWING OF THE MARK INCLUDING THE WORDS "SINCE 1907," BUT EX-

CEPTING THE LETTERS "U P S," ARE DISCLAIMED APART FROM THE MARK AS SHOWN.

FOR: MOTOR VEHICLE DELIVERY SERVICE FOR RETAIL STORES, IN CLASS 105 (INT. CL. 39).

FIRST USE 0-0-1933; IN COMMERCE 0-0-1933.

SER. NO. 533,084, FILED 9-2-1947.

In testimony whereof I have hereunto set my hand and caused the seal of The Patent and Trademark Office to be affixed on Oct. 17, 1989.

COMMISSIONER OF PATENTS AND TRADEMARKS

EXHIBIT A

United States Patent Office

966,774
Registered Aug. 21, 1973

PRINCIPAL REGISTER Service Mark

Ser. No. 431,799, filed Aug. 4, 1972

UPS

United Parcel Service of America, Inc. (Delaware corporation)
643 W. 43rd St.
New York, N.Y. 10036

For: TRANSPORTATION OF PERSONAL PROPERTY FOR HIRE BY DIVERSE MODES OF TRANSPORTATION, in CLASS 105 (INT. CL. 39).
First use 1933; in commerce 1933.
Owner of Reg. Nos. 514,285 and 735,064.

EXHIBIT B

Int. Cl.: 39

Prior U.S. Cl.: 105

United States Patent and Trademark Office
10 Year Renewal

Reg. No. 966,774
Registered Aug. 21, 1973
Renewal Term Begins Aug. 21, 1993

SERVICE MARK
PRINCIPAL REGISTER

UPS

UNITED PARCEL SERVICE OF AMERICA, INC. (DELAWARE CORPORATION)
400 PERIMETER CENTER TERRACE
NORTH
ATLANTA, GA 30346

OWNER OF U.S. REG. NOS. 514,285
AND 735,064.

FOR: TRANSPORTATION OF PERSONAL PROPERTY FOR HIRE BY DIVERSE MODES OF TRANSPORTATION, IN CLASS 105 (INT. CL. 39).

FIRST USE 0-0-1933; IN COMMERCE 0-0-1933.

SER. NO. 72-431,799, FILED 8-4-1972.

*In testimony whereof I have hereunto set my hand
and caused the seal of The Patent and Trademark
Office to be affixed on Aug. 24, 1993.*

COMMISSIONER OF PATENTS AND TRADEMARKS

EXHIBIT B

Int. Cl.: 39

Prior U.S. Cl.: 105

United States Patent and Trademark Office

Reg. No. 1,277,400

Registered May 8, 1984

SERVICE MARK
Principal Register



United Parcel Service of America, Inc. (Delaware
corporation)
Greenwich Office Park 5
51 Weaver St.
Greenwich, Conn. 06830

For: MOTOR VEHICLE AND AIR TRANSPORTATION OF PERSONAL PROPERTY, in CLASS 39 (U.S. Cl. 105).

First use Sep. 20, 1982; in commerce Sep. 20, 1982.

Owner of U.S. Reg. Nos. 735,064, 1,121,927 and others.

No claim is made to the exclusive right to use the words "2nd Day Air", apart from the mark as shown.

Ser. No. 402,340, filed Nov. 12, 1982.

H. M. FISHER, Examining Attorney

EXHIBIT C

Int. Cl.: 39

Prior U.S. Cl.: 105

United States Patent and Trademark Office Reg. No. 1,375,109
Registered Dec. 10, 1985

**SERVICE MARK
PRINCIPAL REGISTER**



UNITED PARCEL SERVICE OF AMERICA,
INC. (DELAWARE CORPORATION)
51 WEAVER ST.
GREENWICH OFFICE PARK 5
GREENWICH, CT 06830

FOR: MOTOR VEHICLE AND AIR TRANS-
PORTATION OF PERSONAL PROPERTY, IN
CLASS 39 (U.S. CL. 105).
FIRST USE 9-20-1982; IN COMMERCE
9-20-1982.

OWNER OF U.S. REG. NOS. 735,064 AND
1,121,927.

NO CLAIM IS MADE TO THE EXCLUSIVE
RIGHT TO USE "NEXT DAY AIR", APART
FROM THE MARK AS SHOWN.

SER. NO. 402,341, FILED 11-12-1982.

H. M. FISHER, EXAMINING ATTORNEY

Int. Cl.: 39

Prior U.S. Cl.: 105

United States Patent and Trademark Office **Reg. No. 1,460,348**
Registered Oct. 6, 1987

**SERVICE MARK
PRINCIPAL REGISTER**

UPS AIR CARGO SERVICE

UNITED PARCEL SERVICE OF AMERICA,
INC. (DELAWARE CORPORATION), DBA
UNITED PARCEL SERVICE CO.
GREENWICH OFFICE PARK 5
51 WEAVER STREET
GREENWICH, CT 06830

FOR: MOTOR VEHICLE AND AIR TRANS-
PORTATION OF PERSONAL PROPERTY, IN
CLASS 39 (U.S. CL. 105).

FIRST USE 10-21-1985; IN COMMERCE
10-21-1985.

OWNER OF U.S. REG. NO. 1,375,109 AND
OTHERS.

NO CLAIM IS MADE TO THE EXCLUSIVE
RIGHT TO USE "AIR CARGO SERVICE",
APART FROM THE MARK AS SHOWN.

SER. NO. 643,511, FILED 2-9-1987.

IRA J. GOODSaid, EXAMINING ATTORNEY

Int. Cl.: 39

Prior U.S. Cl.: 105

United States Patent and Trademark Office

Reg. No. 1,874,248
Registered Jan. 17, 1995

**SERVICE MARK
PRINCIPAL REGISTER**

UPS PREFERRED

UNITED PARCEL SERVICE OF AMERICA,
INC. (DELAWARE CORPORATION)
400 PERIMETER CENTER-TERRACES NORTH
ATLANTA, GA 30346

FOR: TRANSPORTATION BY AIR, RAIL,
BOAT, AND MOTOR VEHICLE OF PACKAGES
AND FREIGHT, IN CLASS 39 (U.S. CL. 105).

FIRST USE 3-15-1994; IN COMMERCE
3-15-1994.
OWNER OF U.S. REG. NOS. 966,774, 1,751,581
AND OTHERS.

SER. NO. 74-498,079, FILED 3-7-1994.

DAVID C. REIHNER, EXAMINING ATTOR-
NEY

Int. Cl.: 39

Prior U.S. Cl.: 105

United States Patent and Trademark Office **Reg. No. 1,876,943**
Registered Jan. 31, 1995

**SERVICE MARK
PRINCIPAL REGISTER**



Preferred

UNITED PARCEL SERVICE OF AMERICA,
INC. (DELAWARE CORPORATION)
400 PERIMETER CENTER-TERRACES NORTH
ATLANTA, GA 30346

FOR: TRANSPORTATION BY AIR, RAIL,
BOAT, AND MOTOR VEHICLE OF PACKAGES
AND FREIGHT, IN CLASS 39 (U.S. CL. 105).

FIRST USE 3-15-1994; IN COMMERCE
3-15-1994.

OWNER OF U.S. REG. NOS. 735,064, 1,376,321
AND OTHERS.

SER. NO. 74-499,043, FILED 3-10-1994.

DAVID C. REIHNER, EXAMINING ATTOR-
NEY

Int. Cl.: 39

Prior U.S. Cl.: 105

United States Patent and Trademark Office **Reg. No. 1,878,016**
Registered Feb. 7, 1995

**SERVICE MARK
PRINCIPAL REGISTER**

UPS NEXT DAY AIR

UNITED PARCEL SERVICE OF AMERICA,
INC. (DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

FOR: MOTOR VEHICLE AND AIR TRANSPORTATION OF PERSONAL PROPERTY, IN CLASS 39 (U.S. CL. 105).

FIRST USE 12-0-1984; IN COMMERCE 12-0-1984.

OWNER OF U.S. REG. NOS. 1,375,109, 1,376,321 AND OTHERS.

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "NEXT DAY AIR", APART FROM THE MARK AS SHOWN.

SER. NO. 74-504,436, FILED 3-24-1994.

LYNN A. LUTHEY, EXAMINING ATTORNEY

Int. Cl.: 39

Prior U.S. Cl.: 105

United States Patent and Trademark Office

Reg. No. 1,878,918

Registered Feb. 14, 1995

**SERVICE MARK
PRINCIPAL REGISTER**

UPS 2ND DAY AIR

UNITED PARCEL SERVICE OF AMERICA,
INC. (DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

FOR: MOTOR VEHICLE AND AIR TRANSPORTATION OF PERSONAL PROPERTY, IN CLASS 39 (U.S. CL. 105).

FIRST USE 12-0-1984; IN COMMERCE 12-0-1984.

OWNER OF U.S. REG. NOS. 1,277,400, 1,376,321 AND OTHERS.

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "2ND DAY AIR", APART FROM THE MARK AS SHOWN.

SER. NO. 74-504,442, FILED 3-24-1994.

LYNN A. LUTHEY, EXAMINING ATTORNEY

Int. Cl.: 9

Prior U.S. Cls.: 21, 23, 26, 36, and 38

Reg. No. 2,098,168

United States Patent and Trademark Office

Registered Sep. 16, 1997

**TRADEMARK
PRINCIPAL REGISTER**

UPS TRACKPAD

UNITED PARCEL SERVICE OF AMERICA,
INC. (DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

FORMATION, IN CLASS 9 (U.S. CLS. 21, 23, 26,
36 AND 38).

FIRST USE 10-0-1995; IN COMMERCE
10-0-1995.

FOR: COMPUTER PROGRAMS AND HAND-
HELD COMPUTERS USED FOR COLLECTION
OF PACKAGE TRANSIT AND DELIVERY IN-

SN 75-026,612, FILED 12-1-1995.

JOHN TANG, EXAMINING ATTORNEY

Int. Cl.: 9

Prior U.S. Cls.: 21, 23, 26, 36 and 38

Reg. No. 2,128,739

United States Patent and Trademark Office

Registered Jan. 13, 1998

**TRADEMARK
PRINCIPAL REGISTER**

UPS ONLINE

UNITED PARCEL SERVICE OF AMERICA,
INC. (DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

FOR: SOFTWARE FOR USE IN PREPARING
AND PRINTING SHIPPING DOCUMENTS AND
INVOICES AND TRACKING THE SHIPPED
PACKAGES, IN CLASS 9 (U.S. CLS. 21, 23, 26, 36
AND 38).

FIRST USE 7-1-1996; IN COMMERCE
7-1-1996.

NO CLAIM IS MADE TO THE EXCLUSIVE
RIGHT TO USE "ONLINE", APART FROM THE
MARK AS SHOWN.

SER. NO. 75-215,162, FILED 12-18-1996.

MIDGE BUTLER, EXAMINING ATTORNEY

Int. Cl.: 9

Prior U.S. Cls.: 21, 23, 26, 36 and 38

United States Patent and Trademark Office

Reg. No. 2,278,090

Registered Sep. 14, 1999

**TRADEMARK
PRINCIPAL REGISTER**



UNITED PARCEL SERVICE OF AMERICA,
INC. (DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

FOR: SOFTWARE FOR USE IN PREPARING
AND PRINTING SHIPPING DOCUMENTS AND
INVOICES AND TRACKING THE SHIPPED
PACKAGES, IN CLASS 9 (U.S. CLS. 21, 23, 26, 36
AND 38).

FIRST USE 7-1-1996; IN COMMERCE
7-1-1996.

OWNER OF U.S. REG. NOS. 2,115,201, 2,128,739
AND OTHERS.

SER. NO. 75-536,053, FILED 8-13-1998.

CAROLYN PENDLETON, EXAMINING AT-
TORNEY

Int. Cls.: 9, 38, and 39

Prior U.S. Cls.: 21, 23, 26, 36, 38, 100, 101, 104, and 105

United States Patent and Trademark Office

Reg. No. 2,582,489

Registered June 18, 2002

**TRADEMARK
SERVICE MARK
PRINCIPAL REGISTER**

UPS ONLINE ENVOY

UNITED PARCEL SERVICE OF AMERICA, INC.
(DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

FOR: SOFTWARE FOR USE IN PREPARING AND PRINTING SHIPPING DOCUMENTS AND INVOICES, AND TRACKING OF THE SHIPPED PACKAGES, IN CLASS 9 (U.S. CLS. 21, 23, 26, 36 AND 38).

FIRST USE 9-0-1998; IN COMMERCE 9-0-1998.

FOR: TELECOMMUNICATION SERVICES, NAMELY, PROVIDING INFORMATION ON INTERNATIONAL TRANSPORTATION AND DELIVERY SERVICES AND PACKAGE TRACKING USING A GLOBAL COMPUTER NETWORK, IN CLASS 38 (U.S. CLS. 100, 101 AND 104).

FIRST USE 9-0-1998; IN COMMERCE 9-0-1998.

FOR: DELIVERY OF PERSONAL PROPERTY BY AIR, RAIL, BOAT AND MOTOR VEHICLE, IN CLASS 39 (U.S. CLS. 100 AND 105).

FIRST USE 9-0-1998; IN COMMERCE 9-0-1998.

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "ONLINE", APART FROM THE MARK AS SHOWN.

SN 75-237,645, FILED 2-6-1997.

MIDGE BUTLER, EXAMINING ATTORNEY

Int. Cls.: 9 and 39

Prior U.S. Cls.: 21, 23, 26, 36, 38, 100, and 105

United States Patent and Trademark Office

Reg. No. 2,830,249

Registered Apr. 6, 2004

**TRADEMARK
SERVICE MARK
PRINCIPAL REGISTER**

UPS INTERNET TOOLS

UNITED PARCEL SERVICE OF AMERICA, INC.
(DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

FOR: SOFTWARE FOR USE IN PREPARING AND
PRINTING SHIPPING FORMS, DOCUMENTS AND
INVOICES, AND TRACKING OF THE SHIPPED
PACKAGES, IN CLASS 9 (U.S. CLS. 21, 23, 26, 36
AND 38).

FIRST USE 10-7-1997; IN COMMERCE 10-7-1997.

FOR: DELIVERY OF PERSONAL PROPERTY BY
AIR, RAIL, BOAT AND MOTOR VEHICLE; PRO-
VIDING COMPUTERIZED INFORMATION ON DO-
MESTIC AND INTERNATIONAL

TRANSPORTATION AND DELIVERY SERVICES
AND PACKAGE TRACKING, IN CLASS 39 (U.S.
CLS. 100 AND 105).

FIRST USE 10-7-1997; IN COMMERCE 10-7-1997.

OWNER OF U.S. REG. NOS. 735,064, 1,121,927,
AND OTHERS.

NO CLAIM IS MADE TO THE EXCLUSIVE
RIGHT TO USE "INTERNET TOOLS", APART
FROM THE MARK AS SHOWN.

SN 75-424,380, FILED 1-27-1998.

JENNIFER KRISP, EXAMINING ATTORNEY

Int. Cl.: 9

Prior U.S. Cls.: 21, 23, 26, 36, and 38

United States Patent and Trademark Office

Reg. No. 2,483,193

Registered Aug. 28, 2001

TRADEMARK
PRINCIPAL REGISTER

UPS.COM

UNITED PARCEL SERVICE OF AMERICA, INC.
(DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

FIRST USE 12-0-1994; IN COMMERCE 12-0-1994.

OWNER OF U.S. REG. NO. 966,774.

FOR: COMPUTER SOFTWARE FOR USE IN
CONNECTION WITH WORLDWIDE PICK UP, TRA-
CING, AND DELIVERY OF PERSONAL PROPERTY
BY AIR, RAIL, BOAT, AND MOTOR VEHICLES , IN
CLASS 9 (U.S. CLS. 21, 23, 26, 36 AND 38).

SN 75-693,710, FILED 4-29-1999.

JENNIFER KRISP, EXAMINING ATTORNEY

Int. Cls.: 9, 35, and 39

Prior U.S. Cls.: 21, 23, 26, 36, 38, 100, 101, 102, and 105

United States Patent and Trademark Office

Reg. No. 3,160,062

Registered Oct. 17, 2006

TRADEMARK
SERVICE MARK
PRINCIPAL REGISTER

UPS WORLDSHIP

UNITED PARCEL SERVICE OF AMERICA, INC.
(DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

FOR: COMPUTER HARDWARE, OPERATING SOFTWARE AND PERIPHERALS, MODEMS, LASER AND THERMAL PRINTERS, SCANNERS, NETWORK INTERFACE CARDS, ELECTRICAL AND FIBER OPTIC CABLES, SCALES AND DISPLAY SCREENS, FOR PACKAGE SHIPPING RATE CALCULATORS, SHIPPING RECORD KEEPING AND SOFTWARE FOR USE IN PREPARING AND PRINTING SHIPPING DOCUMENTS AND INVOICES, AND TRACKING OF SHIPPED PACKAGES, IN CLASS 9 (U.S. CLS. 21, 23, 26, 36 AND 38).

FIRST USE 12-12-1994; IN COMMERCE 12-12-1994.

FOR: COMPUTERIZED TRACKING AND TRACING OF PACKAGES IN TRANSIT, NAMELY, PROVIDING COMPUTERIZED INFORMATION ON DOMESTIC AND INTERNATIONAL TRANS-

PORTATION AND DELIVERY SERVICES, IN CLASS 35 (U.S. CLS. 100, 101 AND 102).

FIRST USE 12-12-1994; IN COMMERCE 12-12-1994.

FOR: TRANSPORTATION AND DELIVERY OF PERSONAL PROPERTY BY AIR, RAIL, BOAT AND MOTOR VEHICLE, IN CLASS 39 (U.S. CLS. 100 AND 105).

FIRST USE 12-12-1994; IN COMMERCE 12-12-1994.

THE MARK CONSISTS OF STANDARD CHARACTERS WITHOUT CLAIM TO ANY PARTICULAR FONT, STYLE, SIZE, OR COLOR.

OWNER OF U.S. REG. NOS. 2,151,185 AND 2,485,673.

SN 78-444,912, FILED 7-1-2004.

ANNE MADDEN, EXAMINING ATTORNEY

Int. Cl.: 9

Prior U.S. Cls.: 21, 23, 26, 36, and 38

United States Patent and Trademark Office

Reg. No. 2,520,558
Registered Dec. 18, 2001

**TRADEMARK
PRINCIPAL REGISTER**

UPS

UNITED PARCEL SERVICE OF AMERICA, INC.
(DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

FOR: SOFTWARE FOR USE IN PREPARING AND
PRINTING SHIPPING DOCUMENTS AND INVOI-
CES AND TRACKING THE SHIPPED PACKAGES,
IN CLASS 9 (U.S. CLS. 21, 23, 26, 36 AND 38).

FIRST USE 10-0-1998; IN COMMERCE 10-0-1998.

OWNER OF U.S. REG. NOS. 2,098,168, 2,115,201,
AND 2,128,739.

SN 75-546,196, FILED 8-31-1998.

DEIRDRE GILLIS, EXAMINING ATTORNEY

Int. Cls.: 9, 16, 25, 35, 38, and 42

Prior U.S. Cls.: 2, 5, 21, 22, 23, 26, 29, 36, 37, 38, 39,
50, 100, 101, 102, and 104

United States Patent and Trademark Office

Reg. No. 2,973,108

Registered July 19, 2005

**TRADEMARK
SERVICE MARK
PRINCIPAL REGISTER**



UNITED PARCEL SERVICE OF AMERICA, INC.
(DELAWARE CORPORATION)
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30325

FOR: COMPUTER HARDWARE AND COMPUTER SOFTWARE IN THE FIELD OF TRANSPORTATION AND DELIVERY AND IN CONNECTION WITH WORLDWIDE PICK-UP, TRACING AND DELIVERY; BATTERIES; ALTERNATIVE POWER SUPPLY APPLIANCES, NAMELY, VOLTAGE SURGE PROTECTORS; MAGNETIC DISCS AND TAPES; COMPUTER PRINTERS, SCALES AND SCANNERS; COMPUTER SOFTWARE FOR PROVIDING AUTOMATED DOWNLOAD OF FILES, FOR PREPARING AND PRINTING OF SHIPPING LABELS, DOCUMENTS AND INVOICES, FOR PROVIDING ELECTRONIC SHIPPING LABELS, SHIPPING DOCUMENTS AND INVOICES, FOR PROVIDING INFORMATION ON AVAILABLE TRANSPORTATION AND DELIVERY SERVICES, AND FOR PROVIDING PROOF OF DELIVERY DOCUMENTATION, INCLUDING DIGITIZED SIGNATURE OF THE RECIPIENT OF THE PACKAGE AND THE RECEIPT, TRANSMISSION AND PROCESSING OF CUSTOMER IDENTIFYING SHIPPING ACCOUNT INFORMATION, IN CLASS 9 (U.S. CLS. 21, 23, 26, 36 AND 38).

FIRST USE 3-29-2003; IN COMMERCE 3-29-2003.

FOR: PRINTED MATERIALS PERTAINING TO INFORMATION TRANSPORTATION AND DELIVERY, NAMELY, PRESS RELEASES, PAMPHLETS, BROCHURES, NEWSLETTERS, BOOKS, POSTERS,

PERIODICALS, CALENDARS, MAGAZINES, PRINTED INSTRUCTIONAL, EDUCATIONAL AND TEACHING MATERIAL, PAPER BANNERS, ENVELOPES, CARDBOARD BOXES AND PACKAGES, SHIPPING AND ADDRESS LABELS, STATIONERY, DESK SETS, PEN AND PENCIL SETS, PEN, PAPER CLIP DISPENSERS, PEN AND HOLDER DESK SETS, NOTE HOLDERS, FOUNTAIN PENS, DESK FOLDERS, STATIONERY-TYPE PORTFOLIOS, BUSINESS CARD FILES, RING BINDERS, LETTER OPENERS, DESK CADDIES, PACKING PAPER, PAPER BAGS, CARDBOARD, CARDBOARD ENVELOPES AND CARTONS; PLASTIC BAGS AND ENVELOPES AND POUCHES FOR PACKAGING, PLASTIC BUBBLE PACKS FOR WRAPPING OR PACKAGING, IN CLASS 16 (U.S. CLS. 2, 5, 22, 23, 29, 37, 38 AND 50).

FIRST USE 3-29-2003; IN COMMERCE 3-29-2003.

FOR: CLOTHING, NAMELY, HATS, SHORTS, SWEATERS, JACKETS, SOCKS, COATS, T-SHIRTS, PANTS, SHIRTS, VESTS, SWEATSHIRTS, RAINWEAR, FOOTWEAR AND GLOVES, IN CLASS 25 (U.S. CLS. 22 AND 39).

FIRST USE 3-29-2003; IN COMMERCE 3-29-2003.

FOR: ADVERTISING SERVICES; LOGISTICS MANAGEMENT IN THE FIELD OF TRANSPORTATION AND DELIVERY; BUSINESS MANAGEMENT SERVICES; BUSINESS CONSULTING SERVICES; BUSINESS ADMINISTRATION SERVICES; PROVIDING FACILITIES FOR THE USE OF OFFICE EQUIPMENT AND MACHINERY; MANAGEMENT ASSISTANCE SERVICES IN THE FIELD OF TRANS-

PORTATION AND DELIVERY; MANAGEMENT CONSULTING SERVICES; PROVIDING COMPUTERIZED TRACKING AND TRACING OF PACKAGES IN TRANSIT; DISTRIBUTION OF ADVERTISING SAMPLES FOR OTHERS; MAIL SORTING HANDLING AND RECEIVING SERVICES; RETAIL STORE SERVICES FEATURING STAMPS AND OFFICE SUPPLIES; DATA PROCESSING SERVICES; PHOTOCOPYING SERVICES; DOCUMENT REPRODUCTION SERVICES; FRANCHISING, NAMELY, OFFERING TECHNICAL ASSISTANCE IN THE ESTABLISHMENT AND/OR OPERATION OF RETAIL MAILING, SHIPPING, PACKAGING, FAXING AND ELECTRONIC COMMUNICATION OUTLETS; PROVIDING AUTOMATED REGISTRATION FOR CUSTOMER IDENTIFYING SHIPPING ACCOUNT INFORMATION OVER THE GLOBAL COMPUTER NETWORK; LICENSING OF COMPUTER SOFTWARE; TRANSPORTATION NETWORK MANAGEMENT SOLUTION SERVICES; ARRANGING EXPEDITED PICK-UP, STORAGE, TRANSPORTATION AND DELIVERY SERVICES; CUSTOMS CLEARANCE SERVICES, IN CLASS 35 (U.S. CLS. 100, 101 AND 102).

FIRST USE 3-29-2003; IN COMMERCE 3-29-2003.

FOR: COMMUNICATIONS SERVICES AND TELECOMMUNICATIONS SERVICES, NAMELY, ELECTRONIC TRANSMISSION OF MESSAGES, DATA

AND VOICE DATA; FACSIMILE AND ELECTRONIC MESSAGE SERVICES, MESSAGE DELIVERY AND SENDING SERVICES, TELEPHONE SERVICES AND WIRE SERVICES; SERVICES OF TRANSPORTATION OF LETTERS, DOCUMENTS AND OTHER TEXTS BY TELEX, BY TELEPHONE, BY ELECTRONIC MEANS; ONLINE DOCUMENT DELIVERY VIA A GLOBAL COMPUTER NETWORK, IN CLASS 38 (U.S. CLS. 100, 101 AND 104).

FIRST USE 3-29-2003; IN COMMERCE 3-29-2003.

FOR: LEGAL SERVICES; SCIENTIFIC RESEARCH SERVICES; DESIGN AND DEVELOPMENT OF COMPUTER HARDWARE AND SOFTWARE; CONSULTING SERVICES IN THE FIELD OF DESIGN, SELECTION, IMPLEMENTATION AND USE OF COMPUTER HARDWARE AND SOFTWARE SYSTEMS FOR OTHERS, IN CLASS 42 (U.S. CLS. 100 AND 101).

FIRST USE 3-29-2003; IN COMMERCE 3-29-2003.

OWNER OF U.S. REG. NOS. 1,461,044, 2,278,090, AND OTHERS.

SN 78-229,056, FILED 3-24-2003.

RAUL CORDOVA, EXAMINING ATTORNEY

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abbreviation to define

UPS

find

Examples: NFL, H&V, NASA, PSP, HIPAA, random
Word(s) in meaning: chat "global warming"
Postal codes: USA: 81657, Canada: T5A 0A7

abbreviation word in meaning



What does UPS stand for?

Your abbreviation search returned 32 meanings

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sort results: alphabetical | rank ?

Rank	Abbr.	Meaning
*****	UPS	United Parcel Service
*****	UPS	Uninterruptible Power Supply
*****	UPS	University of Puget Sound
*****	UPS	Uninterruptible Power System
*****	UPS	Universal Press Syndicate
*****	UPS	Universal Power Supply
****	UPS	Ultraviolet Photoelectron Spectroscopy
****	UPS	Universal Polar Stereographic
****	UPS	Uninterrupted Power Source
***	UPS	Underground Press Syndicate
***	UPS	Units Per Second
***	UPS	Under Provisions of Section
***	UPS	Unfolded Protein Response
***	UPS	Underwater Photographic Society
***	UPS	Uniform Particle Size
***	UPS	Unix Print Services
***	UPS	User Planning System
**	UPS	Unity Primary School (Singapore)
**	UPS	Uniform Procurement System
**	UPS	United Publicity Services plc (UK)



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Uninterruptible power supply

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From Wikipedia, the free encyclopedia

An **uninterruptible power supply** (**UPS**), also known as a **continuous power supply** (**CPS**) or a **battery backup** is a device which maintains a continuous supply of electric power to connected equipment by supplying power from a separate source when utility power is not available. It differs from an auxiliary power supply or standby generator, which does not provide instant protection from a momentary power interruption. Integrated systems that have UPS and standby generator components are often referred to as emergency power systems.

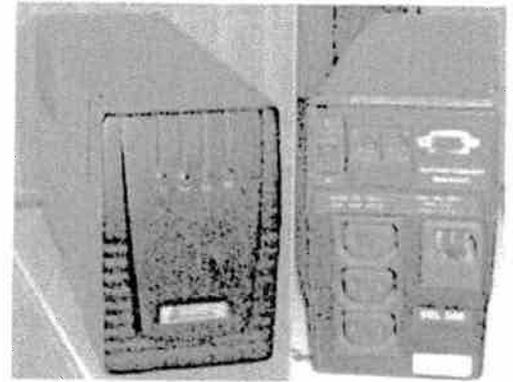
There are three distinct types of UPS: *off-line*, *line-interactive* and *double conversion* (also called *on-line*). An off-line UPS remains idle until a power failure occurs, and then switches from utility power to its own power source, almost instantaneously. An on-line UPS continuously powers the protected load from its reserves (usually lead-acid batteries or stored kinetic energy), while simultaneously replenishing the reserves from the AC power. It also provides protection against all common power problems, and for this reason it is also known as a power conditioner and a line conditioner.

While not limited to safeguarding any particular type of equipment, a UPS is typically used to protect computers, telecommunication equipment or other electrical equipment where an unexpected power disruption could cause injuries, fatalities, serious business disruption or data loss. UPS units come in sizes ranging from units which will back up a single computer without monitor (around 200 VA) to units which will power entire data centers or buildings (several megawatts).

Historically, UPSs were expensive and were most likely to be used on expensive computer systems and in areas where the power supply is interrupted frequently. As prices have fallen, UPS units have become an essential piece of equipment for data centers and business computers, and are also used for personal computers, entertainment systems and more.

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 - 2.2 Line-interactive
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A small free-standing UPS

Common power problems

EXHIBIT T

There are various common power problems that UPS units are used to correct. They are as follows (with a typical example of damage that might be caused):

1. Power failure — Total loss of utility power: Causes electrical equipment to stop working.
2. Voltage sag — Transient (short term) under-voltage: Causes flickering of lights.
3. Voltage spike — Transient (short term) over-voltage i.e. spike or peak: Causes wear or acute damage to electronic equipment.
4. Under-voltage (brownout) — Low line voltage for an extended period of time: Causes overheating in motors.
5. Over-voltage — Increased voltage for an extended period of time: Causes light bulbs to fail.
6. Line noise — Distortions superimposed on the power waveform: Causes electro magnetic interference.
7. Frequency variation — Deviation from the nominal frequency (50 or 60 Hz): Causes motors to increase or decrease speed and line-driven clocks and timing devices to gain or lose time.
8. Switching transient — Instantaneous undervoltage (notch) in the range of milliseconds to seconds: May cause erratic behavior in some equipment, memory loss, data error, data loss and component stress.
9. Harmonic distortion — Multiples of power frequency superimposed on the power waveform: Causes excess heating in wiring and fuses.

UPS units are divided into categories based on which of the above problems they address. Some manufacturers categorize their supplies as a level 3, 5, or 9, if they address the first 3, 5, or 9 power problem respectively.

UPS Technologies

The general categories of modern UPS systems are *on-line*, *line-interactive*, and *standby*. An on-line UPS uses a "double conversion" method of accepting AC input, rectifying to DC for passing through the battery (or battery strings), then inverting back to AC for powering the protected equipment. A line-interactive UPS maintains the inverter in line and redirecting the battery's DC current path from the normal charging mode to supplying current when power is lost. In a standby ("off-line") system the load is powered directly by the input power and the backup power circuitry is only invoked when the utility power fails. Most UPS below 1 kVA are of the line-interactive or standby variety which are usually less expensive.

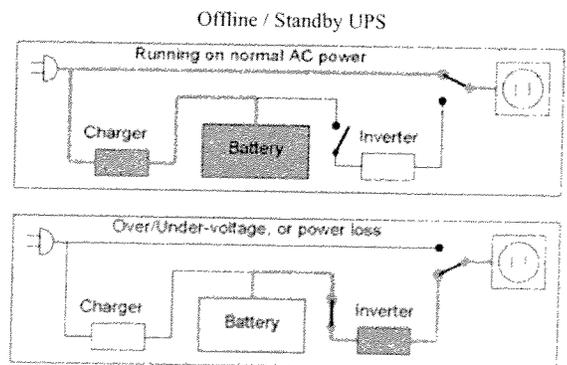
For large power units, Dynamic Uninterruptible Power Supply are sometimes used. A synchronous motor/alternator is connected on the mains via a choke. Energy is stored in a flywheel. When the mains power fails, an Eddy-current regulation maintains the power on the load. DUPS are sometimes combined or integrated with a diesel-genset.

Fuel cell UPS have been developed in recent years using hydrogen and a fuel cell as a power source, potentially providing long run times in a small space. A fuel cell replaces the batteries used in other UPS designs.

Offline / Standby

The Offline / Standby UPS offers only the most basic features, providing surge protection and battery backup. Usually the Standby UPS offers no battery capacity monitoring or self-test capability, making it the least reliable type of UPS since it could fail at any moment without warning. These are also the least expensive, selling for as little as US\$75. The Standby UPS may be worse than using nothing at all, because it gives the user a false sense of security of being assured protection that may not work when needed the most.

With this type of UPS, a user's equipment is normally connected directly to incoming utility power with the same voltage transient clamping devices used in a common surge protected plug strip connected across the power line. When the incoming utility voltage falls below a predetermined level the UPS turns on its internal DC-AC inverter circuitry, which is powered from an internal storage battery. The SBS then mechanically switches the connected equipment on to its DC-AC inverter output. The switch over time is stated by most manufacturers as being less than 4 milliseconds, but typically can be as long as 25 milliseconds depending on the amount of time it takes the Standby UPS to detect the lost utility voltage.



Typical protection time: 0 - 20 minutes
Capacity expansion: Usually not available

Line-interactive

The Line-Interactive UPS is similar in operation to a Standby UPS, but with the addition of a multi-tap variable-voltage autotransformer. This is a special type of electrical transformer that can add or subtract powered coils of wire, thereby

Line-Interactive UPS

EXHIBIT T

increasing or decreasing the magnetic field and the output voltage of the transformer.

This type of UPS is able to tolerate continuous undervoltage brownouts and overvoltage surges without consuming the limited reserve battery power. It instead compensates by auto-selecting different power taps on the autotransformer. Changing the autotransformer tap can cause a very brief output power disruption, so the UPS may *chirp* for a moment, as it briefly switches to battery before changing the selected power tap.

Autotransformers can be engineered to cover a wide range of varying input voltages, but this also increases the number of taps and the size, weight, complexity, and expense of the UPS. It is common for the autotransformer to only cover a range from about 90v to 140v for 120v power, and then switch to battery if the voltage goes much higher or lower than that range.

In low-voltage conditions the UPS will use more amperage than normal so it may need a higher amperage circuit than a normal device. For example to power a 1000 watt device at 120 volts, the UPS will draw 8.32 amps. If a brownout occurs and the voltage drops to 100 volts, the UPS will draw 10 amps to compensate. This also works in reverse, so that in an overvoltage condition, the UPS will need fewer amps of current.

Double-Conversion / Online

The Online UPS is ideal for environments where electrical isolation is necessary or for equipment that is very sensitive to power fluctuations. Although once previously reserved for very large installations of 10kW or more, advances in technology have permitted it to now be available as a common consumer device, supplying 500 watts or less. The Online UPS is generally more expensive but may be necessary when the power environment is "noisy" such as in industrial settings, for larger equipment loads like data centers, or when operation from an extended-run backup generator is necessary.

Typical protection time:
5 - 30 minutes
Capacity expansion:
Yes, several hours

The basic technology of the Online UPS is the same as in a Standby or Line-Interactive UPS. However it typically costs much more, due to it having a much greater amperage AC-to-DC battery-charger/rectifier, and with the rectifier and inverter designed to run continuously with improved cooling systems. It is called a *Double-Conversion* UPS due to the rectifier directly driving the inverter, even when powered from normal AC current.

In an Online UPS, the batteries are always connected to the inverter, so that no power transfer switches are necessary. When power loss occurs, the rectifier simply drops out of the circuit and the batteries keep the power steady and unchanged. When power is restored, the rectifier resumes carrying most of the load and begins charging the batteries, though the charging current may be limited to prevent the high-power rectifier from overheating the batteries and boiling off the electrolyte.

The main advantage to the on-line UPS is its ability to provide an electrical firewall between the incoming utility power and sensitive electronic equipment. While the Standby and Line-Interactive UPS merely filters the input utility power, the Double-Conversion UPS provides a layer of insulation from power quality problems. It allows control of output voltage and frequency regardless of input voltage and frequency.

Ferro-resonant

Ferro-resonant units operate in the same way as a standby UPS unit with the exception that a ferro-resonant transformer is used to filter the output. This transformer is designed to hold energy long enough to cover the time between switching from line power to battery power and effectively eliminates the transfer time. Many ferro-resonant UPSs are 90-93% efficient and offer excellent isolation.

Typical protection time:
0.016 seconds
Capacity expansion:
No

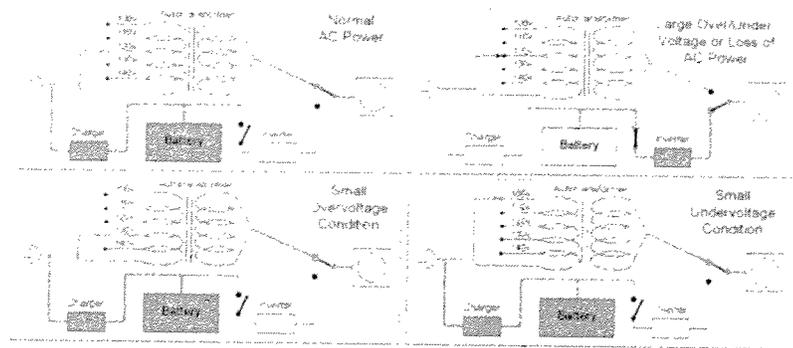
While this used to be the dominant type of UPS, they are no longer used for common applications. Power factor correcting equipment found in newer computer systems interacts with static ferro-resonant transformers, causing potentially damaging oscillations, and the transformer itself can create distortions which yield power less acceptable than poor quality line AC. These units are still used in some industrial settings, but have mostly disappeared from use with general computer equipment. Many ferro-resonant UPSs utilizing controlled ferro technology may not interact with power-factor-correcting equipment.

DC-Power Supply

A UPS designed for powering DC equipment is very similar to an online UPS, except that it does not need an

Typical

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Typical protection time: 5 - 30 minutes
Capacity expansion: Yes, several hours

output inverter, and often the powered device does not need a power supply. Rather than converting AC to DC to charge batteries, then DC to AC to power the external device, and then back to DC inside the powered device, some equipment accepts DC power directly and allows one or more conversion steps to be eliminated.

Several hours

Capacity expansion:

Yes

Many systems used in telecommunications use 48 volt DC power, because it is not considered a *high-voltage* by most electrical codes and is exempt from many safety regulations, such as being installed in conduit and junction boxes. DC has typically been the dominant power source for telecommunications, and AC has typically been the dominant source for computers and servers.

There has been much experimentation with 48v DC power for computer servers, in the hope of reducing the likelihood of failure and the cost of equipment. However, to supply the same amount of power, the amperage must be greater than an equivalent 120v or 240v circuit, and greater amperage requires larger conductors and/or more energy to be lost as heat.

High voltage DC (380 volts) is finding use in some data center applications, and allows for small power conductors, but is subject to the more complex electrical code rules for safe containment of high voltages.^[1]

Rotary UPS

A Rotary UPS uses the inertia of a high-mass spinning flywheel to provide short-term *ride-through* in the event of power loss. The flywheel also acts as a buffer against power spikes and sags, since such short-term power events are not able to appreciably affect the rotational speed of the high-mass flywheel. It is also one of the oldest designs, predating vacuum tubes and integrated circuits.

Typical protection time:

20 - 60 seconds

Capacity expansion:

Yes, several seconds

It can be considered to be *online* since it spins continuously under normal conditions. However, unlike an electronic double-conversion UPS, it is only capable of providing reserve power for a few seconds before the flywheel has slowed and the protection fails. It is traditionally used in conjunction with standby diesel generators, providing backup power only for the brief period of time the engine needs to start running and stabilize its output.

The Rotary UPS is generally reserved for applications needing more than 10,000 watts of protection, to justify the expense of an extremely large and heavy power system that can only be transported by forklift or crane. A larger flywheel or multiple flywheels operating in parallel will increase the reserve running time, but at greatly increasing cost due to the size and weight of the precision-balanced flywheels.

Because the flywheels are a mechanical power source, it is not necessary to use an electric motor or generator as an intermediary between it and a diesel engine designed to provide emergency power. By using a transmission gearbox, the rotational inertia of the flywheel can be used to directly start up a diesel engine, and once running, the diesel engine can be used to directly spin the flywheel. Multiple flywheels can likewise be connected in parallel through mechanical countershafts, without the need for separate motors and generators for each flywheel.

They are normally designed to provide very high amperage output compared to a purely electronic UPS, and are better able to provide inrush current for inductive loads such as motor startup or compressor loads, as well as medical MRI and cath lab equipment. It is also able to tolerate short-circuit conditions up 17 times larger than an electronic UPS, permitting one device to blow a fuse and fail while other devices still continue to be powered from the Rotary UPS.

Its life cycle is usually far greater than a purely electronic UPS, up to 30 years or more. But they do require periodic downtime for mechanical maintenance (ball bearing replacement), while solid-state designs, using batteries, do not require downtime if the batteries can be hot-swapped, which is usually the case for larger units.

Typically, the high-mass flywheel is used in conjunction with a motor-generator system. These units can be configured as:^[2]

- 1. A motor driving a mechanically connected generator,
- 2. A combined synchronous motor and generator wound in alternating slots of a single rotor and stator,
- 3. A Hybrid Rotary UPS, designed similar to an Online UPS, except that it uses the flywheel in place of batteries. The rectifier drives a motor to spin the flywheel, while a generator uses the flywheel to power the inverter.

In case #3 the motor generator can be synchronous/synchronous or induction/synchronous. The motor side of the unit in case #2 and #3 can be driven directly by an AC power source (typically when in inverter bypass), a 6-step double-conversion motor drive, or a 6 pulse inverter. Case #1 uses an integrated flywheel as a short-term energy source instead of batteries to allow time for external, electrically coupled gensets to start and be brought online. Case #2 and #3 can use batteries or a free-standing electrically coupled flywheel as the short-term energy source.

UPS Applications

The basic technology of UPS hardware can have many forms when applied for different purposes. Any of the technologies may be recombined as redundant systems or designed for special needs.

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N+1 UPS

In large business environments where reliability is of great importance, a single huge UPS can also be a single point of failure that can disrupt many other systems. To provide greater reliability, multiple smaller UPS modules and batteries can be integrated together to provide redundant power protection equivalent to one very large UPS.

It is not normally possible to take the AC output of two separate UPS units and combine their output voltage, because the output waveform of one UPS inverter can be leading or lagging the other inverter, causing severe power fluctuations that can damage both the UPS units and the powered devices.

In an N+1 UPS, a special synchronization signal is shared amongst the inverter modules to assure that all are producing a sinewave output that is in synchrony, without leading or lagging waveforms. Additional monitoring circuits assure all inverters and batteries are operating correctly within tolerances.

Generally an N+1 UPS is designed to supply more power than is actually required by the load, so that in the event of a fault, at least one of the inverters or battery modules can be disabled and removed from powering the load. An internal crossbar bus can permit any battery module to be connected to any different inverter module, to bypass potential failures.

An N+1 UPS can permit easy, centralized expansion of enterprise load capacity. In contrast, by purchasing small separate UPS units, eventually the server room fills with a collection of many different UPS models with many different batteries all aging at different rates and needing lots of care and monitoring. Buying a single huge UPS means wasted capacity until it is full, and then another huge UPS must be added which again has wasted capacity. With the N+1 UPS, as capacity grows, expansion just requires purchasing additional inverter modules and battery modules, and adding them to the N+1 chassis.

Multiple, Redundant UPS

Many computer servers offer the option of redundant power supplies, so that in the event of one power supply failing, one or more other power supplies are able to power the load.

While it is common to plug each of these individual power supplies into one single UPS, redundant protection can be extended further yet by connecting each power supply to its own UPS. This provides double protection from both a power supply failure and a UPS failure, so that continued operation is assured.

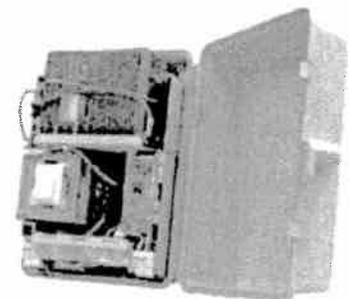
These additional layers of protection also add complexity and cost to the design of an enterprise server room environment. It also requires handling only by experienced professionals, since the multiple redundant cabling can appear confusing and unnecessary to an untrained person.

Outdoor UPS

When a UPS system is placed outdoors, it should have some specific features that guarantee that it can tolerate weather with a 'minimal to none' effect on performance. Factors such as temperature, humidity, rain, and snow among others should have been considered by the manufacturer when designing an outdoor UPS system. Operating temperature ranges for outdoor UPS systems could be around -40°C to $+55^{\circ}\text{C}$.

An outdoor UPS system is normally made of several components designed for this particular task:

- **Outdoor enclosure:** provides protection against the elements to all the components placed within. Quality outdoor enclosures are powder coat finished for corrosion resistance and long life. Outdoor enclosures are normally NEMA 3R compliant
- **Power Module:** is the UPS itself. The boards of this power module should be conformal coated to avoid humidity damage. This UPS unit is normally based on Line Interactive or Double Conversion topology. Some manufacturers prefer Line Interactive because it provides a better Mean Time Between Failures (MTBF), and that is a critical part of an outdoor UPS system.
- **Batteries:** The batteries used in outdoor UPS systems must operate in a wide temperature range, usually from -40°C to $+60^{\circ}\text{C}$. Batteries normally used in outdoor UPS systems are Gel Cell Batteries. The outdoor UPS's Power Module should provide a temperature compensated battery charging mechanism to optimize the life of the batteries.



A small outdoor UPS system.

A proper outdoor UPS system requires that all its components are designed for this environment. As seen from the features of the components above, an outdoor UPS system is not an indoor UPS inside an outdoor enclosure.

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Outdoor UPS systems can be pole, ground (pedestal), or host mounted. Outdoor environment could mean extreme cold, in which case the outdoor UPS system should include a battery heater mat, or extreme heat, in which case the outdoor UPS system should include a fan system or an air conditioning system.

Outdoor UPS systems are ideal for protection of WiFi/GSM/CDMA/satellite base stations, wireless communications/perimeter surveillance and security/gate control systems, LED traffic light/roadway display systems and remote terminal units (RTUs).

Internal-PC UPS

Internal UPS are a group of uninterruptible power supplies (UPS) designed to be placed inside computer chassis. There are two types of Internal UPS. First type is miniaturized regular UPS that are made small enough to fit into a 5.25" CD-ROM slot bay of a regular computer chassis. The other type is re-engineered switching power supplies that utilize dual power sources of AC and/or DC as power inputs and have an AC/DC built-in switching management control units.

The first type often requires extra connection wires between the internal UPS and computer's power supply. Some internal UPS of this group output high voltage (110 V - 220 V) direct current (DC) and some output nine-step table wave AC. Neither design is safe or energy efficient. As of 2006, there are only a couple of companies still selling this type of internal UPS in Australia, Asia and some part of Europe

The second group of internal UPS replaces the regular switching power supplies. There are three main design mechanisms:

1. Optic-coupling that imitates AC during AC outages. This mechanism was first introduced by American Advanced Power of USA and Magnum Power of UK in 1997, as well as Apollo Power of Taiwan in 1998. This design provides a low-cost solution but its efficiency is low and it has a very low overall wattage limit (<300 W).
2. An analog-circuitry-controlled AC/DC switching mechanism. This design also provides a low-cost solution. However, because of the bulky component circuit board, little space is available for increasing wattage output. Plus, the final products are very sensitive to factors such as local heat and causing frequent operational errors. Nevertheless, because of its low cost, it is still popular in China. Most Asian internal UPS manufacturers belong to this category.
3. A CPU controlled AC/DC switching mechanism. This design was first introduced by American Advanced Power Inc. of USA and Amsdell of Canada. It provides error-free switching control and a complicated communication protocol between the power supply and computer.

Disposing of UPS batteries

Many UPS units contain sealed lead-acid batteries and electronics which can be detrimental to the environment. In the United States, it is illegal to dispose of lead-acid batteries in a landfill, and they must be properly recycled. Sealed lead-acid batteries are recycled in the same manner as car batteries, so any auto shop that accepts used car batteries for recycling will also accept sealed lead acid batteries.

UPS Limitations

Using a generator with a UPS

Some types of UPS cannot function reliably with emergency power generators and the UPS will fail to work correctly with the generator power. Only a UPS that is specifically rated to work with a generator can be trusted to function properly.

Due to the limited output capacity of an emergency generator, it is common for the generator to produce temporary surges and dropouts as devices are turned on and off. These surges and dropouts become larger as the capacity of the emergency generator decreases compared to the total load it must supply.

For example, if a small business were powered by a 25 kilowatt standby generator, the engine would only run fast enough to provide a stable 50/60 Hz output sinewave for the currently operating loads. If a 5,000 watt water heater suddenly turns on, there is a temporary sag in voltage and a drop in frequency because the generator power draw is suddenly much higher than the engine output. The engine control detects the drop and opens the engine throttle to compensate, increasing engine RPM and bringing the voltage and frequency back up to normal. This stabilization may take a few seconds to occur if the sudden power draw is large, or the device is a motor and normally draws much more power for a few moments when starting as compared to stable running.

Similarly if a large load such as a water heater turns off, the load on the generator is suddenly much lower, and the voltage and frequency rises as the generator RPM quickly increases. The engine control again detects this increase and backs off the engine throttle to bring the generator back down to normal voltage and frequency.

A simple Standby UPS cannot deal with these surges and dropouts, and will constantly transfer to battery, which will quickly discharge and

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cannot recharge quickly enough to compensate. A Line-Interactive UPS will have fewer problems but may still run down the battery due to the drouptots. An Online or Double-Conversion UPS is potentially capable of handling these variations, but only if the power supply is designed to tolerate the wide ranging frequency and voltage variations.

Note that these frequency and voltage variations occur normally as a part of standard powerline generation. However the overall size of the distributed electrical grid and the huge capacity of generation stations help to buffer these surges and dropouts so the effects are not as severe as for a system running on emergency generators.

Power strip surge-protection hazard

For the basic Standby and Line-Interactive UPS, there is an often-unmentioned difficulty with adding additional power connections. Many UPS models only include a few closely-spaced outlets that cannot accommodate large power bricks or a large number of low-wattage devices all with separate power cables.

While a generic power strip *without surge protection* can be used to add additional room to the surge-protected outlets, a power strip with surge protection can interact badly with the UPS cutover switch and cause severe damage to the UPS. When the UPS switches from line power to battery and then back to line power, the cutover occurs so quickly that it can appear to be a power surge to a power strip plugged into the UPS. Most surge protection is sacrificial, in that the protection devices will create a temporary direct-short to create an alternate path for the surge to follow, and over time the protection eventually fails from stress.

How false surge triggering occurs

False triggering can occur because the inverter is usually not synchronized with the line current, and it is possible for a switchover to occur where the inverter has just reached the bottom of a negative voltage sine curve and the line current is reaching the exact top of a positive voltage sine curve (or vice-versa).

120v AC is an averaged Root Mean Square number, and has an actual peak near 170 volts. During the bypass switch cutover in this worst-case scenario, the voltage suddenly swings from -170v to +170v in 4 milliseconds, which appears to the surge protection to be a sudden 340-volt swing and has all the appearance of being a voltage spike that should be suppressed. For a 240v UPS, this worst case switchover results in a sudden 650v voltage swing.

If the surge protection false-triggers, the surge protection suddenly overloads the UPS by several magnitudes beyond its design limits, and can result in the UPS electronics quickly overheating and burning up in seconds. Surge protection is generally only rated to handle brief spikes, but this sudden sustained high current absorption may result in the melting of the plastic power strip casing.

PDU: Commercial expansion options

When a UPS is used in a commercial environment such as powering rack-mount servers, it is not possible for the UPS to provide all the sockets necessary to support the protected loads. In this case the manufacturer will specifically provide an outlet-expansion option known as the Power Distribution Unit, or *PDU*. This is typically nothing more than common electrical receptacles and a long power cord in a steel case, with no surge protection at all, but with a high cost due to its special design for rackmount infrastructure. Surge protection is unnecessary in the PDU, since the UPS itself is already designed to provide surge protection.

For large installations with over 30 amperes of output, the UPS may have the option to be wired directly to standard electrical conduit and receptacles, using flex conduit to attach the UPS to the permanent conduit, again avoiding potential surge interaction problems.

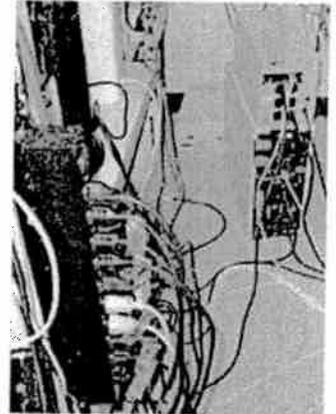
Equipment damage policy limitations

For UPS models with equipment damage insurance policies, the policy is typically valid only if all protected devices were connected directly to the UPS, or if the customer purchases a company-brand PDU or company-brand power strip, as specified in the warranty policy.

Battery Monitoring Limitations

It is typically difficult to determine the charge capacity of an aging battery, using only simple voltage tests. Capacity declines as a battery ages and the lead plates begin to sulfate and decompose, but if a weak battery is sufficiently charged it will still be able to supply sufficient voltage to appear normal.

Only when the battery has been put under load for an extended period of time, and the battery amperage and voltage measured during the test, is it possible to find the true charge capacity. A weak battery will run properly for a few minutes or seconds and fail suddenly.



An American Power Conversion 10-outlet rackmount PDU without built-in surge protection, connected to an APC Smart UPS 2200 (bottom unit on right)

A *Run-Time Calibration* is a special test that is rarely performed, and involves running down a fully-charged battery until it fails. The measured time and voltage/ampereage results to create an estimated profile of projected battery life. This profile is how the estimated run-time is calculated based on current UPS wattage load.

However, the profile is rarely updated and becomes incorrect as the battery continues to age. More load testing is needed to verify capacity and update the run-time estimation, which is why some UPS models run a self test every few weeks, to do a quick battery capacity estimation.

Some UPS manufacturers suggest doing a Run-Time Calibration only once a year, because the deep discharging is harmful to the lead plates and accelerates their eventual failure. For longest life the charge should stay near 100% continuously, though without the occasional testing it is not possible to know the battery state at all.

For UPS models that rarely or never run self-tests, the battery life may have declined so severely from the profile that the UPS may fail within seconds of being activated. The UPS may appear to be perfectly normal until the critical moment it is needed, but in that moment as the protected devices suddenly turn off does the truth arise that the battery lost all its capacity weeks or months ago, and the UPS did not report any problems.

Nonstandard Sinewave Output

The Standby, Line-Interactive, and Online UPS products all contain an electronic inverter to generate alternating current from direct current. Since it is not a mechanical spinning rotor, they can only approximate a true sinusoidal wave. The less-expensive UPS models tend to generate a less-accurate approximation. The lowest cost UPS models tend to produce a very rough square-wave, mid-range UPS models produce a stepped-sine wave, while the highest quality models offer true sinewave output.

In many cases the protected equipment may appear to operate normally on the nonstandard waveforms, but over time may be damaged due to the harmonics of non-sinewave power causing excessive heating of transformers, AC motor windings, and power supply circuitry, for which the protected device was not designed to tolerate.

Run-Time Capacity Expansion

The least expensive UPS models, and the UPS models built for a specific purpose, are usually not capable of accepting additional battery packs or larger battery packs for extended power protection. To keep the manufacturing costs down, they frequently have no cooling fan, little or no venting for air circulation, and do not provide any form of battery or inverter temperature monitoring. Instead, to prevent overheating, their inverters are designed to only operate as long as the internal battery capacity allows and then shut down before the UPS overheating becomes excessive.

See also

- Emergency power system
- Power conditioner
- Surge protector

Notes

- [↑] Microsoft Word - DC'DemoFinalReportFinalJan17-07.doc
- [↑] Hybrid Rotary UPS white paper

References

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- How a UPS works
- The Do-It-Yourself-UPS

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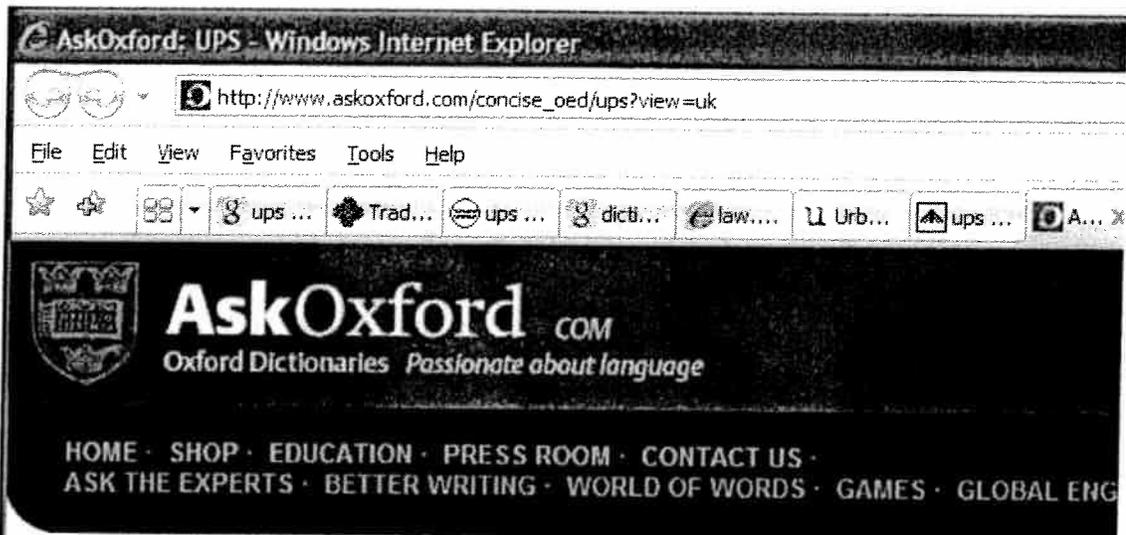
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UPS



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- upset price
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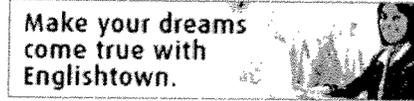


UPS

abbr

Definition:

ELECTRICITY uninterruptible power supply



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UPS

1. uninterruptible power supply.

2. A source level C debugger that runs under X11 or SunView by Mark Russell <mtr@ukc.ac.uk>. Ups includes a C interpreter which allows you to add fragments of code simply by editing them into the source window. Version 2.1.

Ported to Sun, DECstation, VAX Ultrix, HLH Clipper.

<ftp://export.lcs.mit.edu/contrib/>. Mailing list: ups-users-request@ukc.ac.uk.

Unofficial enhancements by Rod Armstrong <rod@sj.ate.slb.com>

<ftp://sj.ate.slb.com/misc/Unix/ups/contrib/rob>.

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UPS

Last modified: Thursday, April 01, 2004

Short for uninterruptible power supply, a power supply that includes a battery to maintain power in the event of a power outage.

There are two basic types of UPS systems: standby power systems (SPSs) and on-line UPS systems.

An on-line UPS avoids these momentary power lapses by constantly providing power from its own inverter, even when the power line is functioning properly.

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UPS

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noun

SERVICE MARK FOR United Parcel Service

UPS (Uninterruptible Power Supply) telecom definition

A device or system that provides electrical power without interruption in the event that commercial power drops to an unacceptable voltage level. A UPS comprises circuitry and batteries that may provide power just long enough to shut down a computer or other system gracefully, without loss of data, or perhaps for many hours of normal operation in the event of a catastrophic commercial power failure. A typical UPS system operates in a hot standby, or offline, mode, continuously charging its batteries from a commercial power source and constantly prepared to assume responsibility within a few milliseconds for powering the client system. A more expensive online UPS actively filters commercial power, running it through the battery packs and an inverter, smoothing out the electrical waveforms and correcting for any power spikes and dips. See also inverter and waveform.

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Typed Drawing

Word Mark BACK-UPS
Goods and Services IC 009. US 021. G & S: uninterruptible power supplies (used as a backup power supply for computers and other sensitive electronic equipment). FIRST USE: 19900400. FIRST USE IN COMMERCE: 19900500
Mark Drawing Code (1) TYPED DRAWING
Serial Number 74090528
Filing Date August 23, 1990
Current Filing Basis 1A
Original Filing Basis 1A
Published for Opposition September 10, 1991
Registration Number 1689902
Registration Date June 2, 1992
Owner (REGISTRANT) American Power Conversion Corp. CORPORATION RHODE ISLAND 132 Fairgrounds Road West Kingston RHODE ISLAND 02892
Assignment Recorded ASSIGNMENT RECORDED
Attorney of Record STEPHEN J HOLMES
Type of Mark TRADEMARK
Register PRINCIPAL
Affidavit Text SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20010907.
Renewal 1ST RENEWAL 20010907
Live/Dead Indicator LIVE

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Smart-UPS

Word Mark	SMART-UPS
Goods and Services	IC 009. US 021. G & S: uninterruptible power supplies (used as a backup power supply for computers and other sensitive electronic equipment. FIRST USE: 19900400. FIRST USE IN COMMERCE: 19900500
Mark Drawing Code	(5) WORDS, LETTERS, AND/OR NUMBERS IN STYLIZED FORM
Serial Number	74090549
Filing Date	August 23, 1990
Current Filing Basis	1A
Original Filing Basis	1A
Published for Opposition	September 10, 1991
Registration Number	1689903
Registration Date	June 2, 1992
Owner	(REGISTRANT) American Power Conversion Corp. CORPORATION RHODE ISLAND 132 Fairgrounds Road West Kingston RHODE ISLAND 02892
Attorney of Record	STEPHEN J HOLMES
Type of Mark	TRADEMARK
Register	PRINCIPAL
Affidavit Text	SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20010907.
Renewal	1ST RENEWAL 20010907
Live/Dead	LIVE

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Typed Drawing

Word Mark UPS PLUS
Goods and Services IC 009. US 021. G & S: electrical and electronic equipment; namely, power supplies, voltage regulators, frequency/voltage converters, uninterruptible power supplies and power supply modules for use with computer systems, industrial control devices, test instrumentation and microprocessor-based devices. FIRST USE: 19910816. FIRST USE IN COMMERCE: 19910816
Mark Drawing Code (1) TYPED DRAWING
Serial Number 74157388
Filing Date April 15, 1991
Current Filing Basis 1A
Original Filing Basis 1B
Published for Opposition April 14, 1992
Registration Number 1749282
Registration Date January 26, 1993
Owner (REGISTRANT) Yutaka Electric International, Inc. CORPORATION DELAWARE 320 W. Clary Avenue San Gabriel CALIFORNIA 91776
 (LAST LISTED OWNER) FALCON ELECTRIC, INC. CORPORATION BY ASSIGNMENT DELAWARE 5106 AZUSA CANYON ROAD IRWINDALE CALIFORNIA 91706
Assignment Recorded ASSIGNMENT RECORDED
Attorney of Record PATCHEN M. HAGGERTY
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Type of Mark TRADEMARK
Register PRINCIPAL

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Typed Drawing

Word Mark MEASURE-UPS
Goods and Services IC 009. US 026. G & S: electronic apparatus for use with uninterruptible power supplies for the purpose of detecting environmental and security anomalies in computer rooms. FIRST USE: 19930301. FIRST USE IN COMMERCE: 19930301
Mark Drawing Code (1) TYPED DRAWING
Serial Number 74371542
Filing Date March 24, 1993
Current Filing Basis 1A
Original Filing Basis 1A
Published for Opposition September 28, 1993
Registration Number 1811966
Registration Date December 21, 1993
Owner (REGISTRANT) American Power Conversion Corp. CORPORATION RHODE ISLAND 132 Fairgrounds Road West Kingston RHODE ISLAND 02892
 (LAST LISTED OWNER) AMERICAN POWER CONVERSION CORP. CORPORATION BY ASSIGNMENT MASSACHUSETTS 132 FAIRGROUNDS RD. WEST KINGSTON RHODE ISLAND 02892
Assignment Recorded ASSIGNMENT RECORDED
Attorney of Record Stephen J. Holmes
Prior Registrations 1689902;1689903
Type of Mark TRADEMARK
Register PRINCIPAL
Affidavit Text SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20030516.

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Typed Drawing

Word Mark BACK-UPS PRO
Goods and Services IC 009. US 021. G & S: uninterruptible power supplies (used as a backup power supply) for computers and other sensitive electronic equipment. FIRST USE: 19940500. FIRST USE IN COMMERCE: 19940500
Mark Drawing Code (1) TYPED DRAWING
Serial Number 74525958
Filing Date May 17, 1994
Current Filing Basis 1A
Original Filing Basis 1A
Published for Opposition July 4, 1995
Registration Number 1921637
Registration Date September 26, 1995
Owner (REGISTRANT) American Power Conversion Corporation CORPORATION MASSACHUSETTS 132 Fairgrounds Road West Kingston RHODE ISLAND 02892
Attorney of Record STEPHEN J. HOLMES
Prior Registrations 1689902
Type of Mark TRADEMARK
Register PRINCIPAL
Affidavit Text SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20050203.
Renewal 1ST RENEWAL 20050203
Live/Dead Indicator LIVE

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Typed Drawing

Word Mark WINUPS
Goods and Services IC 009. US 021 023 026 036 038. G & S: computer software, namely software for use in the custom design and configuration of power systems. FIRST USE: 19960103. FIRST USE IN COMMERCE: 19960103
Mark Drawing Code (1) TYPED DRAWING
Serial Number 74695292
Filing Date June 29, 1995
Current Filing Basis 1A
Original Filing Basis 1B
Published for Opposition March 26, 1996
Registration Number 2067751
Registration Date June 3, 1997
Owner (REGISTRANT) SOLIDSTATE CONTROLS, INC. CORPORATION DELAWARE 875 DEARBORN DRIVE COLUMBUS OHIO 43085
Attorney of Record THOMAS W. RYAN
Type of Mark TRADEMARK
Register PRINCIPAL
Affidavit Text SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20070817.
Renewal 1ST RENEWAL 20070817
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Typed Drawing

Word Mark TELE-UPS
Goods and Services IC 009. US 021 023 026 036 038. G & S: Power protection devices, namely uninterruptable electrical power supplies for use as a backup power supply for computers, telephone systems and other electronic equipment. FIRST USE: 19960615. FIRST USE IN COMMERCE: 19970228
Mark Drawing Code (1) TYPED DRAWING
Serial Number 75520198
Filing Date July 16, 1998
Current Filing Basis 1A
Original Filing Basis 1A
Published for Opposition January 14, 2003
Registration Number 2703362
Registration Date April 8, 2003
Owner (REGISTRANT) Fenton Technologies CORPORATION TAIWAN 13F-3, 75 Hsin Tai Wu Rd., Sec. 1 Hsi-Chih Taipei Hsien 221 TAIWAN
Type of Mark TRADEMARK
Register PRINCIPAL
Live/Dead Indicator LIVE

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Tactical UPS

Word Mark TACTICAL UPS

Goods and Services IC 009. US 021 023 026 036 038. G & S: Automated process control system, namely, micro-processor based hardware and software used to monitor the status of industrial processes, namely, power generation, electrical distribution and oil and gas processing; Electrical distribution systems, namely, power distribution panels; Electrical power distribution units; Electrical switchgear, namely, voltage boosting devices for electric power lines; Electronic controllers for use with power converters; High-frequency switching power supplies; Power controllers; Power line conditioners; Power supplies; Renewable battery system to provide backup power; Voltage regulators for electric power; Voltage stabilizing power supply. FIRST USE: 20050101. FIRST USE IN COMMERCE: 20050101

Standard Characters Claimed

Mark Drawing Code (4) STANDARD CHARACTER MARK

Serial Number 77265497

Filing Date August 27, 2007

Current Filing Basis 1A

Original Filing Basis 1A

Published for Opposition February 19, 2008

Registration Number 3444320

Registration Date June 10, 2008

Owner (REGISTRANT) Madden, Paul Daniel INDIVIDUAL UNITED STATES 219 Park Avenue East Mansfield OHIO 449021845

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Type of Mark TRADEMARK

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Extreme UPS

Word Mark EXTREME UPS

Goods and Services IC 009. US 021 023 026 036 038. G & S: Electrical power distribution units; Electronic controllers for use with power converters; High-frequency switching power supplies; Power supplies; Renewable battery system to provide backup power; Integrated battery backup systems comprising a battery, an electronic measurement apparatus for use in the measurement of battery health and performance, and a remote computer software program that uses the foregoing data to trend, predict, and store data related to the health of the battery. FIRST USE: 20031217. FIRST USE IN COMMERCE: 20031217

Standard Characters Claimed

Mark Drawing Code (4) STANDARD CHARACTER MARK

Trademark Search Facility Classification Code LETTER-3-OR-MORE UPS Combination of three or more letters as part of the mark

Serial Number 77264401

Filing Date August 25, 2007

Current Filing Basis 1A

Original Filing Basis 1A

Published for Opposition February 19, 2008

Registration Number 3444309

Registration Date June 10, 2008

Owner (REGISTRANT) Madden, Paul Daniel INDIVIDUAL UNITED STATES 219 Park Avenue East Mansfield OHIO 449021845

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LEV-UPS

Word Mark LEV-UPS

Goods and Services IC 009. US 021 023 026 036 038. G & S: UNINTERRUPTABLE POWER SUPPLY FOR MICROPROCESSOR BASED PRODUCTS. FIRST USE: 20000600. FIRST USE IN COMMERCE: 20001000

Standard Characters Claimed

Mark Drawing Code (4) STANDARD CHARACTER MARK

Serial Number 76566094

Filing Date December 10, 2003

Current Filing Basis 1A

Original Filing Basis 1A

Published for Opposition June 14, 2005

Registration Number **2991164**

Registration Date September 6, 2005

Owner (REGISTRANT) Leviton Manufacturing Co., Inc. CORPORATION DELAWARE 59-25 Little Neck Parkway Little Neck NEW YORK 11362

Attorney of Record Paul J. Sutton

Type of Mark TRADEMARK

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Typed Drawing

Word Mark UPS ENHANCER

Goods and Services IC 009. US 021 023 026 036 038. G & S: VOLTAGE SAG PROTECTORS FOR USE IN MAINTAINING OPERATION OF SENSITIVE ELECTRICAL EQUIPMENT DURING VOLTAGE SAGS, SPIKES, AND MOMENTARY LOSSES OF ELECTRICAL POWER. FIRST USE: 20010831. FIRST USE IN COMMERCE: 20010831

Mark Drawing Code (1) TYPED DRAWING

Serial Number 76360664

Filing Date January 21, 2002

Current Filing Basis 1A

Original Filing Basis 1A

Supplemental Register Date October 25, 2002

Registration Number **2682042**

Registration Date January 28, 2003

Owner (REGISTRANT) Soft Switching Technologies Corporation CORPORATION WISCONSIN 8155 Forsythia Street Middleton WISCONSIN 53562

Attorney of Record Charles L. Leeck

Type of Mark TRADEMARK

Register SUPPLEMENTAL

Live/Dead Indicator LIVE

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Typed Drawing

Word Mark MATRIX UPS
Goods and Services IC 009. US 021 023 026 036 038. G & S: modular uninterruptible power supplies for computers, and other sensitive electronic equipment. FIRST USE: 19930316. FIRST USE IN COMMERCE: 19930316
Mark Drawing Code (1) TYPED DRAWING
Serial Number 75184003
Filing Date October 21, 1996
Current Filing Basis 1A
Original Filing Basis 1A
Published for Opposition April 7, 1998
Registration Number 2168971
Registration Date June 30, 1998
Owner (REGISTRANT) American Power Conversion Corporation CORPORATION MASSACHUSETTS 132 Fairgrounds Road West Kingston RHODE ISLAND 02892
Attorney of Record STEPHEN J. HOLMES
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Register PRINCIPAL
Affidavit Text SECT 15. SECT 8 (6-YR).
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Back-UPS

o f f i c e

Word Mark	BACK-UPS OFFICE
Goods and Services	IC 009. US 021 023 026 036 038. G & S: power protection devices, namely, uninterruptible power supplies, for use with computers and other sensitive electronic devices. FIRST USE: 19960601. FIRST USE IN COMMERCE: 19960601
Mark Drawing Code	(3) DESIGN PLUS WORDS, LETTERS, AND/OR NUMBERS
Design Search Code	26.11.21 - Rectangles that are completely or partially shaded
Serial Number	75148943
Filing Date	August 12, 1996
Current Filing Basis	1A
Original Filing Basis	1A
Published for Opposition	July 29, 1997
Registration Number	2106783
Registration Date	October 21, 1997
Owner	(REGISTRANT) American Power Conversion Corporation CORPORATION MASSACHUSETTS 132 Fairgrounds Road West Kingston RHODE ISLAND 02892
Attorney of Record	STEVEN J. HOLMES
Prior Registrations	1689902;1921637
Type of Mark	TRADEMARK

EXHIBIT MM



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Typed Drawing

Word Mark ROBOT/UPS
Goods and Services IC 009. US 021 023 026 036 038. G & S: computer programs for automating the shutdown and power-up of computers in response to power failures. FIRST USE: 19910227. FIRST USE IN COMMERCE: 19910227
Mark Drawing Code (1) TYPED DRAWING
Serial Number 74703388
Filing Date July 19, 1995
Current Filing Basis 1A
Original Filing Basis 1A
Published for Opposition March 12, 1996
Registration Number 1978481
Registration Date June 4, 1996
Owner (REGISTRANT) Help/Systems Incorporated CORPORATION MINNESOTA 210 Baker Technology Plaza 6101 Baker Road Minnetonka MINNESOTA 55345
 (LAST LISTED OWNER) HELP/SYSTEMS, LLC LTD LIAB CO DELAWARE 6533 FLYING CLOUD DRIVE, SUITE 200 C/O HELP/SYSTEMS HOLDINGS, INC. EDAN PRAIRIE MINNESOTA 55344
Assignment Recorded ASSIGNMENT RECORDED
Attorney of Record RENEE S. KRAFT
Prior Registrations 1628993;1639348;1642436;1711417;1715358;AND OTHERS
Type of Mark TRADEMARK
Register PRINCIPAL
Affidavit Text SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20070208.
Renewal 1ST RENEWAL 20070208

EXHIBIT NN



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HYBRID GREEN SYSTEM

Word Mark HYBRID GREEN SYSTEM

Goods and Services IC 009. US 021 023 026 036 038. G & S: POWER SUPPLIES; MOBILE PHONE BATTERY CHARGERS; MOBILE PHONE BATTERY CHARGER STATIONS; BATTERY CHARGERS; UNIVERSAL POWER SUPPLIES; POWER SAVING ADAPTERS; ELECTRIC STORAGE BATTERIES; UNINTERRUPTIBLE POWER SUPPLIES; AC/DC CONVERTERS; POWER SOURCE STABLE ADAPTERS. FIRST USE: 20070524. FIRST USE IN COMMERCE: 20070524

Standard Characters Claimed

Mark Drawing Code (4) STANDARD CHARACTER MARK

Serial Number 77176169

Filing Date May 9, 2007

Current Filing Basis 1A

Original Filing Basis 1B

Published for Opposition December 4, 2007

Registration Number 3550928

Registration Date December 23, 2008

Owner (REGISTRANT) POWERTECH INDUSTRIAL CO., LTD. CORPORATION TAIWAN 10F., NO. 407, SEC. 2 CHUNG SHAN RD., CHUNG HO CITY TAIPEI HSIEN TAIWAN

Attorney of Record MORTON J. ROSENBERG

Disclaimer NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "SYSTEM" APART FROM THE MARK AS SHOWN

Type of Mark TRADEMARK

Register PRINCIPAL

Live/Dead Indicator LIVE

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HYBRID GREEN POWER

Word Mark HYBRID GREEN POWER

Goods and Services IC 009. US 021 023 026 036 038. G & S: POWER SUPPLIES; MOBILE PHONE BATTERY CHARGERS; MOBILE PHONE BATTERY CHARGER STATIONS; BATTERY CHARGERS; UNIVERSAL POWER SUPPLIES; POWER SAVING ADAPTERS; ELECTRIC STORAGE BATTERIES; UNINTERRUPTIBLE POWER SUPPLIES; AC/DC CONVERTERS; POWER SOURCE STABLE ADAPTERS. FIRST USE: 20070524. FIRST USE IN COMMERCE: 20070524

Standard Characters Claimed

Mark Drawing Code (4) STANDARD CHARACTER MARK

Serial Number 77176149

Filing Date May 9, 2007

Current Filing Basis 1A

Original Filing Basis 1B

Published for Opposition March 18, 2008

Registration Number 3550927

Registration Date December 23, 2008

Owner (REGISTRANT) POWERTECH INDUSTRIAL CO., LTD. CORPORATION TAIWAN 10F., NO. 407, SEC. 2 CHUNG SHAN RD., CHUNG HO CITY TAIPEI HSIEN TAIWAN

Attorney of Record MORTON J. ROSENBERG

Disclaimer NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "POWER" APART FROM THE MARK AS SHOWN

Type of Mark TRADEMARK

Register PRINCIPAL

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GREEN CELL

Word Mark	GREEN CELL
Goods and Services	IC 009. US 021 023 026 036 038. G & S: Batteries. FIRST USE: 20080528. FIRST USE IN COMMERCE: 20080528
Standard Characters Claimed	
Mark Drawing Code	(4) STANDARD CHARACTER MARK
Serial Number	78917769
Filing Date	June 27, 2006
Current Filing Basis	1A
Original Filing Basis	1B
Published for Opposition	January 2, 2007
Registration Number	3538919
Registration Date	November 25, 2008
Owner	(REGISTRANT) Original Power, Inc. CORPORATION COLORADO 3400 Corporate Way, Suite C Duluth GEORGIA 30096
Attorney of Record	Andrew J. Park
Disclaimer	NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "CELL" APART FROM THE MARK AS SHOWN
Type of Mark	TRADEMARK
Register	PRINCIPAL
Live/Dead Indicator	LIVE



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Word Mark	WELL GREEN
Goods and Services	IC 009. US 021 023 026 036 038. G & S: MONITORS FOR COMPUTER; CATHODE RAY TUBES; PLASMA DISPLAY PANELS; COMPUTERS; ELECTRIC DISCHARGE TUBES OTHER THAN FOR LIGHTING; TV RECEIVERS; FIELD EMISSION DISPLAYS
Mark Drawing Code	(3) DESIGN PLUS WORDS, LETTERS, AND/OR NUMBERS
Design Search Code	05.03.25 - Leaf, single; Other leaves 26.03.14 - Ovals, three or more; Three or more ovals 26.03.16 - Ovals touching or intersecting 26.03.21 - Ovals that are completely or partially shaded
Trademark Search Facility Classification Code	SHAPES-COLORS-2 Design listing or lined for two colors SHAPES-OVALS Oval figures or designs including incomplete ovals and one or more ovals VEG Plant life such as trees,flowers,fruits,grains,nuts,wreaths,and leaves
Serial Number	78651563
Filing Date	June 15, 2005
Current Filing Basis	44E
Original Filing Basis	1B;44D
Published for Opposition	April 29, 2008
Registration	3467834



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GREEN ICE

Word Mark GREEN ICE

Goods and Services IC 009. US 021 023 026 036 038. G & S: Computer hardware, namely, computer semiconductors; microprocessors, semiconductor devices, integrated circuits, computer chips, computer chipsets for use in transmitting data to and from a central processing unit, computer interface boards, circuit boards, multimedia accelerators boards, graphic cards, microcomputers, computer data processors, blank computer discs, central processing units, computer network routers, computer hubs, computer servers, computer switches, computer peripherals and parts thereof; computer hardware for telecommunications, radio, telephone, television, computer, internet, global positioning system (GPS), microwave, satellite, broadband, radar, infrared, Wi-Fi, digital and analog signal transmitters; audiovisual receivers and converters, network access server hardware, computer network adapters, switches, routers, hubs, modem, magnetically encoded communication debit cards; portable computers, namely laptop computers, notebook computers, handheld computers, personal digital assistants; computer software, namely, software to manipulate, disseminate, search and retrieve information, computer operating software, computer firmware, namely, data synchronization programs, application development tool programs, computer software for the automatic configuration of computer networks, software for communication and telecommunication in local or global communications and computer networks, security software for information access control and secure communications, software for use in database management, computer utility software for use with computers, telecommunications equipment and devices and computer peripheral devices, computer software to maintain and operate computer system, computer software for wireless network communications and connectivity; entertainment software, namely, computer game software. electronic publications, namely, instructional manuals featuring instruction in the field of computers and education, graphics, animation, interactive communications, computer games, movies and music videos and instruction in the use and operation of various electronic digital devices recorded on computer media, instructional manuals in electronic format, computers and instructional manuals sold as a unit. FIRST USE: 20080222. FIRST USE IN COMMERCE: 20080222

Standard Characters Claimed
Mark Drawing Code (4) STANDARD CHARACTER MARK
Serial Number 78717058
Filing Date September 20, 2005
Current Filing Basis 1A
Original Filing Basis 1B
Published for Opposition February 13, 2007
Registration Number 3442429
Registration Date June 3, 2008
Owner (REGISTRANT) T.C. CONNECTION CORPORATION CORPORATION BR.VIRGIN ISLANDS PO. Box 362, Wickhams Cay I 3rd Floor, Omar Hodge Bldg. Road Town, Tortola BR.VIRGIN ISLANDS VG 1110
Type of Mark TRADEMARK
Register PRINCIPAL
Live/Dead Indicator LIVE

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GREEN ARC

Word Mark GREEN ARC

Goods and Services IC 009. US 021 023 026 036 038. G & S: Charging appliances for rechargeable accumulators; electric arc welders for non-medical use and laser welding devices for non-medical use; electrical arc welders and electric cutting torches, namely, electric blow torches in the nature of welding torches; welding electrodes; current sources, in particular reverse current sources in the nature of current converters; frequency changers; plasma arc welding current sources; transformers; photovoltaic cells; replacement structural parts for automation regarding welding processes; electrical controls for material handling machines or robots; microprocessor controls for all aforementioned goods; computer software on data media for use in controlling welding machinery and robots in the welding industry, and replacement parts therefor for all aforementioned goods

Standard Characters Claimed

Mark Drawing Code (4) STANDARD CHARACTER MARK

Serial Number 79027013

Filing Date February 2, 2006

Current Filing Basis 66A

Original Filing Basis 66A

Published for Opposition May 8, 2007

Registration Number 3268592

International Registration Number 0893646



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Typed Drawing

Word Mark CLEAN GREEN POWER MACHINE
Goods and Services IC 009. US 021 023 026 036 038. G & S: Solar energy systems, namely, portable solar power stations comprised of solar collectors, panels, electric modules, and power control systems comprised of inverters and charge controllers. FIRST USE: 20030901. FIRST USE IN COMMERCE: 20030901

IC 039. US 100 105. G & S: Distribution of solar and electric energy. FIRST USE: 20030901. FIRST USE IN COMMERCE: 20030901

IC 040. US 100 103 106. G & S: Generation and production of solar and electric energy; custom manufacture of solar energy systems. FIRST USE: 20030901. FIRST USE IN COMMERCE: 20030901

Mark Drawing Code (1) TYPED DRAWING

Serial Number 76533603

Filing Date July 30, 2003

Current Filing Basis 1A

Original Filing Basis 1B

Supplemental Register Date January 25, 2006

Registration Number 3083913

Registration Date April 18, 2006

Owner (REGISTRANT) SkyBuilt Power, LLC CORPORATION DELAWARE 4449 N. 38th Street
Arlington VIRGINIA 22207

Attorney of Record Lynn M. Jordan



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DIGITAL HYBRID WIRELESS

Word Mark DIGITAL HYBRID WIRELESS
Goods and Services IC 009. US 021 023 026 036 038. G & S: Wireless microphone transmitters and receivers. FIRST USE: 20020430. FIRST USE IN COMMERCE: 20020430
Standard Characters Claimed
Mark Drawing Code (4) STANDARD CHARACTER MARK
Serial Number 77446074
Filing Date April 11, 2008
Current Filing Basis 1A
Original Filing Basis 1A
Published for Opposition November 25, 2008
Registration Number 3571724
Registration Date February 10, 2009
Owner (REGISTRANT) Lectrosonics, Inc. CORPORATION NEW MEXICO 581 Laser Road NE Rio Rancho NEW MEXICO 87124
Attorney of Record DeWitt M. Morgan
Disclaimer NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "DIGITAL" OR "WIRELESS" APART FROM THE MARK AS SHOWN
Type of Mark TRADEMARK
Register PRINCIPAL-2(F)
Live/Dead Indicator LIVE



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HybridPACK

Word Mark HYBRIDPACK
Goods and Services IC 009. US 021 023 026 036 038. G & S: Integrated circuit chips, namely, computer chips; semiconductor components, in particular, discrete and integrated semiconductors, discrete and integrated semiconductor chips and discrete and integrated semiconductor chip housings; transistors, in particular bipolar transistors, field-effect transistors and power transistors. FIRST USE: 20080800. FIRST USE IN COMMERCE: 20090100
Standard Characters Claimed
Mark Drawing Code (4) STANDARD CHARACTER MARK
Serial Number 77235548
Filing Date July 22, 2007
Current Filing Basis 1A
Original Filing Basis 1B
Published for Opposition May 27, 2008
Registration Number 3606753
Registration Date April 14, 2009



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HYBRID

Word Mark HYBRID
Goods and Services IC 009. US 021 023 026 036 038. G & S: Computer graphic cards, blank magnetic card carriers; blank magnetic cards for storage of computer information; prerecorded magnetic cards featuring graphics. FIRST USE: 20050210. FIRST USE IN COMMERCE: 20041013
Standard Characters Claimed
Mark Drawing Code (4) STANDARD CHARACTER MARK
Serial Number 78517198
Filing Date November 15, 2004
Current Filing Basis 1A
Original Filing Basis 1B
Published for Opposition September 12, 2006
Registration Number 3349399
Registration Date December 4, 2007
Owner (REGISTRANT) Sapphire Technology Limited LTD LIAB CO HONG KONG Unit 1912 19/F, Shatin Galleria 18-24 Shan Mei Street Fo Tan, Shatin, New Territories HONG KONG
Attorney of