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FORM PTO-1595
(Rev. 6/93)

07-21-2000



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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

EET

Attorney's Docket No. 021238-342

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- (1) SHOZO MINAGAWA
(2) CHARLES T. HIGGINS
(3) TAKAHIDE TAKEDA
(4) SEIICHI KAWAKAMI

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

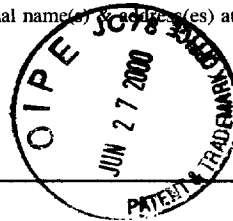
3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Other: _____

Execution Date: June 7, May 23, June 16, and June 16,
2000

2. Name and address of receiving party(ies):

Name: PHILIP MORRIS INCORPORATEDAddress: 120 Park Avenue, New York, NY 10017Additional name(s) of receiving party(ies) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

29/120,165

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Peter K. SkiffAddress: BURNS, DOANE, SWECKER & MATHIS, L.L.P.P.O. Box 1404Alexandria, Virginia 22313-14046. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00☒ Enclosed☒ Authorized to be charged to deposit account, if necessary

8. Deposit account number:

02-4800

07/20/2000 DC00ATES 00000171 29120165

01 FC:581

40.00 OP

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Wendi L. Weinstein, Registration No. 34,456
Name of Person SigningWendi L. Weinstein
SignatureJune 27, 2000
DateTotal number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by 1) Shozo Minagawa, 2) Charles T. Higgins, 3) Takahide Takeda, and 4) Seiichi Kawakami (hereinafter referred to as "the Assignors"), residing at 1) Shibaura 3-5-25 #122, Minato-Ku, Tokyo 107-023, Japan; 2) 30 Glenbrooke Circle West, Richmond, Virginia 23229, U.S.A.; 3) 2325-13 Shizuki, Tsuna-cho Tsuna-gun, hYogo 656-2131, Japan; and 4) 3-12-1 Monobe, Sumoto City, Hyogo, 656-0051, Japan, respectively, witnesseth:

WHEREAS, the Assignors have made certain new and useful inventions in BATTERY set forth in an application for Letters Patent of the United States of America, [] having an oath or declaration executed on even date herewith;
[X] bearing Serial No. 29/120,165, and filed on March 16, 2000; and

WHEREAS, PHILIP MORRIS INCORPORATED, a corporation duly organized under and pursuant to the laws of the State of Virginia and having an office and place of business at 120 Park Avenue, New York, New York 10017, is desirous of acquiring the entire right, title, and interest in and to the inventions for the United States and the application for Letters Patent of the United States, and in and to any United States Letters Patent or Patents, to be obtained therefor and thereon; and

WHEREAS, PHILIP MORRIS PRODUCTS INC., a corporation organized and existing under the laws of the State of Virginia and having an office and place of business at 3601 Commerce Road, Richmond, Virginia 23234, is desirous of acquiring the entire right, title, and interest in and to the inventions for countries foreign to the United States, and in and to any foreign patent applications, and in and to any foreign Letters Patent or Patents to be obtained therefor and thereon; and

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) to each of us paid and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged:

ASSIGNMENT OF UNITED STATES PATENT RIGHTS

We do hereby sell, assign and transfer unto PHILIP MORRIS INCORPORATED, its successors, assigns and legal representatives, all right, title, and interest in and to the inventions, for the United States, and in and to the United States patent application, including any continuations and divisions thereof, and any substitute applications therefor and any United States patents which may issue thereon and any reissues and extensions of the same; and we hereby authorize and request the Commissioner of Patents to grant and issue any and all patents on the inventions in the United States to PHILIP MORRIS INCORPORATED as the assignee thereof.

ASSIGNMENT OF FOREIGN PATENT RIGHTS

Further in view of the consideration hereinabove referred to, we do hereby sell, assign, and transfer unto PHILIP MORRIS PRODUCTS INC., its successors, assigns and legal representatives, all right, title and interest in and to the inventions for all countries foreign to the United States, including the right to claim priority under the International Convention based on the United States patent application, and in and to any foreign patent application, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any foreign patents which may issue thereon, and any reissues and extensions of the same; and we hereby authorize and request competent authorities to grant and issue any and all patents on the inventions in any foreign country to PHILIP MORRIS PRODUCTS INC. as the assignee thereof.

We further agree to execute upon request of the assignee PHILIP MORRIS INCORPORATED such additional documents, if any, as are necessary and proper to secure patent protection on the inventions in the United States, and to execute upon request of assignee PHILIP MORRIS PRODUCTS INC. such additional documents, if any, as are necessary and proper to secure patent protection on the inventions in countries foreign to the United States, and to otherwise give full effect to and perfect the rights of the assignee PHILIP MORRIS INCORPORATED in the United States and of assignee PHILIP MORRIS PRODUCTS INC. in countries foreign to the United States.

AND for the same consideration, the Assignors hereby covenant and agree to and with the assignees, their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions and any and all applications for Letters Patent above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the assignees, their successors, legal representatives, and assigns, that the Assignors will, whenever counsel of the assignees, or counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with the inventions or any and all applications for Letters Patent, or any proceeding in connection with Letters Patent for the inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent for the inventions, without charge to the assignees, their successors, legal representatives, and assigns, but at the cost and expense of the assignees, their successors, legal representatives, and assigns;

IN TESTIMONY THEREOF, we have hereunto signed our names on the dates hereinafter indicated:

Date 6/7/2000 Name of Assignor Shozo Minagawa
STATE OF ~~VIRGINIA~~)
 : ss
CITY OF ~~RICHMOND~~)

On this 7th day of J u n e, 2000, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My ~~Commission~~ Expires:

December 1962
AFFAIRS BUREAU
(Notarial Seal)

Kaname Kimura
NOTARY PUBLIC
KANAME KIMURA Witness

KANAME KIMURA

Witness

Page 2 of 3

PATENT
REEL: 010923 FRAME: 0213

Date 5/23/00 Name of Assignor Charles T. Higgins
Charles T. Higgins

STATE OF VIRGINIA)
County of Hanover ✓
CITY OF RICHMOND)

On this 23rd day of May, 2000, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires:

02/28/03
(Notarial Seal)

Debra J. Lewis
NOTARY PUBLIC

Date 6/16/00 Name of Assignor 武田 隆彦 TAKAHIDE TAKEDA
Takahide Takeda

STATE OF VIRGINIA)
: ss
CITY OF RICHMOND)

On this 16th day of June, 2000, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires:

(Notarial Seal)

栗山 俊一 Shunichi Kuriyama 6/16/00
NOTARY PUBLIC
Witness

Date 6/16/00 Name of Assignor 河上 聖一 Seiichi Kawakami
Seiichi Kawakami

STATE OF VIRGINIA)
: ss
CITY OF RICHMOND)

On this 16th day of June, 2000, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires:

(Notarial Seal)

栗山 俊一 Shunichi Kuriyama 6/16/00
NOTARY PUBLIC
Witness