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102653903

S. DEPARTMENT OF COMMERCE  
EET Patent and Trademark Office  
Atty Dkt No: TAK-154-USAP

1 documents or copy thereof.

1. Name of conveying party(ies):

KUROIWA, Tamotsu

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

Name: The Japan Smoking Articles  
Corporate AssociationSt. Address: No. 19-5, Kotobuki 3-chome,  
Taito-ku

City: Tokyo Country: JAPAN

Additional name(s) of conveying party(ies) attached? Yes \_ No X

3. Nature of conveyance:

Assignment

Merger

Security Agreement

Change of Name

X Other: Record to Correct Assignors Name on an Assignment  
Document Previously Recorded on Reel 14142/Frame 422Additional name(s) & address(es) attached? Yes \_ No X

Execution Date: November 4, 2003

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)

10/452,200

B. Patent No.(s)

Additional numbers attached? Yes \_ No X5. Name and address of party to whom correspondence  
concerning document should be mailed:Ronald R. Snider  
P.O. Box 27613  
Washington, D.C. 20038-7613  
(202-347-2600)6. Total number of applications and patents  
involved: 1

7. Total fee (37 CFR 3.41): \$40.00

X EnclosedX Authorized to be charged to deposit account  
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8. Deposit account number:

19-2816

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9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and  
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Name of Person Signing  
Registration No. 24,962  
SignatureJanuary 20, 2004  
DateTotal number of pages comprising cover sheet, attachments and document: 2

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Washington, D.C. 20231

06-11-2003



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U. S. DEPARTMENT OF COMMERCE  
OVER SHEET  
LY Patent and Trademark Office  
Atty Dkt No: TAK-154-USAP

Attached original documents or copy thereof.

17399 U.S. PTO  
10/452200  
06/03/03

1. Name of conveying party(ies):

KUROIWA, Akira

Additional name(s) of conveying party(ies) attached? Yes \_ No X

3. Nature of conveyance:

X Assignment

Merger

Security Agreement

Change of Name

Other:

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

Name: The Japan Smoking Articles  
Corporate Association

St. Address: No. 19-5, Kotobuki 3-chome,

Taito-ku

City: Tokyo

Country: JAPAN

Additional name(s) & address(es) attached? Yes \_ No X

Execution Date: May 27, 2003

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: June 3, 2003

A. Patent Application No.(s)

10452200

B. Patent No.(s)

Additional numbers attached? Yes \_ No X

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

Ronald R. Snider  
P.O. Box 27613  
Washington, D.C. 20038-7613  
(202-347-2600)

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

X Enclosed

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if any error.

8. Deposit account number:  
19-2816

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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.

Ronald R. Snider

Name of Person Signing  
Registration No. 24,962

Signature

June 3, 2003

Date

Total number of pages comprising cover sheet, attachments and document: 2

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

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Washington, D.C. 20231

06-11-2003 102469359 10452200

40.00

CORRECTED Assignment

SOLE/JOINT INVENTION  
(U.S.Rights Only)

# ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:  
Hydrocarbon Gas Flow Rate Adjusting Method And Apparatus

(Title of Invention)

for which I/We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on \_\_\_\_\_, 19\_\_\_\_ (Serial No. \_\_\_\_\_); and

WHEREAS, The Japan Smoking Articles Corporate Association

(Full Name of Assignee)

a corporation of Japan

(Country of Incorporation)

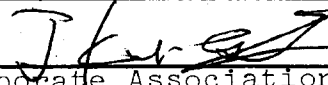
whose post office address is No.19-5, Kotobuki 3-chome, Taito-ku, Tokyo JAPAN

(hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/We, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Tamotsu KUROIWA	ASSIGNOR'S SIGNATURE 	DATE 11/04/2003
ADDRESS c/o The Japan Smoking Articles Corporate Association No.19-5, Kotobuki 3-chome, Taito-ku, Tokyo, JAPAN		CITIZENSHIP Japanese
2. FULL NAME OF SECOND ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS		CITIZENSHIP
3. FULL NAME OF THIRD ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS		CITIZENSHIP
4. FULL NAME OF FOURTH ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS		CITIZENSHIP
5. FULL NAME OF FIFTH ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS		CITIZENSHIP
6. FULL NAME OF SIXTH ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS		CITIZENSHIP

SNIDER & ASSOCIATES • WASHINGTON, D.C.  
PO BOX 27613, WASHINGTON, DC 20038-7613

RECORDED: 01/20/2004

PATENT  
REEL: 014904 FRAME: 0890