U.S. PTO 12/073532 03/06/2008

.S. DEPARTMENT OF COMMERCE 03-13-2008 Form PTO-1595 (Rev. 03-05) OMB No. 0651-0027 (exp. 6/30/2005) I States Patent and Trademark Office REC 103488860 or the new address(es) below. To the Director of the U.S. Patent and Trade 2. Name and address of receiving party(ies) Name of conveying party(ies): Noboru HIGASHI (02/21/2008), Yukihiro OZAKI Kurashiki Boseki Kabushiki Kaisha (02/22/2008), and Akifumi IKEHATA (02/22/2008) internal Address: Additional name(s) of conveying party(ies) attached? Street Address: 3. Nature of conveyance/Execution Date(s): 7-1, Hommachi Kurashiki-shi, Okayama Execution Date(s): in parentheses after Inventor name JAPAN Change of Name Merger x Assignment Security Agreement Joint Research Agreement City: Government Interest Assignment State: Executive Order 9424, Confirmatory License Zip: Country: Additional name(s) & address(es) х Other attached: X This document is being filed together with a new application. 4. Application or patent number(s): B. Patent No.(s) A. Patent Application No:(s) NEW Additional numbers attached? Yes X No 5. Name and address to whom correspondence Total number of applications and patents involved: concerning document should be mailed: Name: Marc S. Weiner BIRCH, STEWART, KOLASCH & BIRCH, 40.00 7. Total fee (37 CFR 1.21(h) & 3.41) \$ Internal Address: Atty. Dkt.: 0020-5648PUS1 Authorized to be charged by credit card Street Address: 8110 Gatehouse Road Authorized to be charged to deposit account X Suite 100 East **Enclosed** P.O. Box 747 None required (government interest not affecting title) City: Falls Church 8. Payment Information VA Zip: 22040-0747 a. Credit Card Last 4 Numbers State: **Expiration Date** (703) 205-8000 Phone Number: (703) 205-8050 02-2448 b. Deposit Account Number Fax Number: Authorized User Name Marc S. Weiner mailroom@bskb.com Email Address: 9. Signaturez March 6, 2008 Date Total number of pages including cover Marc S. Weiner - 32,181 sheet, attachments, and documents: Name of Person Signing

> 03/12/2008 DBYRNE 00000007 022448 12073532 01 FC:8021 40.00 DA

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ATTORNEY DOCKET NO. 0020-5648 PUS1

ASSIGNMENT

		Application No	NEW	_				Filed _	3/6/2008
Insert Name(s)	-	WHEREAS,_			<u> </u>		•		
of Inventor(s)		Noboru	HIGASHI,	Yukihiro	OZAKI	and	Akifumi	IKEHAT	A
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of Invention	⇒	ATTENUATED	TOTAL REF	FLECTION P	ROBE A	ND S	PECTROME	TER THE	REWITH
		-		<u></u>					
		for which an application (except in the case of a			ted States	of Ame	rica has been	executed by	the undersigned
Insert Date of Signing of Application	-	onFe	bruary 2	1 and 22,	2008				; and
Insert Name	_	WHEREAS,	KUR	ASHIKI BO	SEKI K	abusi	HIKI KAI	SHA	
of Assignee									
						, <u> </u>			
insert Address of Assignee	→	of	mmachi, K	urashiki-	shi, O	kayaı	ma, Japa	n	
·		its heirs, successors, l							
CHECK BOX		may be granted there	for in the Uni				and in and t	o any Letter	STATEMENTS) MAC
F APPROPRIATE		NOW, THEREF paid, the receipt of wh has (have) sold, assi Assignee the full and dependencies and po which may be granted and if the box above	FORE, in consi- nich is hereby ac- gned and tran I exclusive riglossessions and I therefor in th	cknowledged, ar sferred, and by ht to the said in the entire right te United States	id other go these provention i title and of Americ	ood and esents of the Uniterestation in the Uniterestation in the Earth in the Eart	l valuable cor does sell, ass Inited States t in and to a rritories, dep	nsideration, sign and tra s of America ny and all L	the undersigned insfer unto said a, its territories, letters Patent(s)

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or

terms for which the same may be granted.

PATENT REEL: 020653 FRAME: 0483 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date Feb. 21, 2008	Name of Inventor_ holorutigashe	Noboru HIGASHI
Date Feb. 22, 2008	(signature) Name of Inventor	Yukihiro OZAKI
Date Feb. 22, 2008	Name of Inventor (signature)	Akifumi IKEHATA
Date,	Name of Inventor(signature)	
Date,	Name of Inventor(signature)	
Date,	Name of Inventor(signature)	

PATENT REEL: 020653 FRAME: 0484

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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ASSIGNMENT

Applica	tion No.	NEW				Filed	3/6/08
Insert Name(s)		***(Given Name F	AMILY NAME	(ALL CAPS))***		
of Inventor(s)		WHEREAS,	Masahiko TO	SAKA and Tetsuy	ya NAKAMURA		
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Insert Title	(hereina	fter designated	as the undersigne	ed) has (have) inven	nted certain new and use	eful improv	ements in
of Invention	CIG	ARETTE B	OX AND A	N OUTER BL	ANK THEREFOR	₹	
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			n for Letters Pa provisional applic		States of America ha	s been exe	cuted by the undersigned
Insert Date				,			
of Signing of Application	on	Februar	y 8, 2008	8			; and
							•
Insert Name	WHE	REAS, JAPA	N TOBACCO I	INC.			
of Assignee		· · · · · · · · · · · · · · · · · · ·		 			
							
Insert Address	o.F	2.1.77	5 d	to at the Teles 1	05 8400 1		
of Assignee	of	2-1, Toranome	on 2-chome, Mi	inato-ku, Tokyo 1	05-8422, Japan		
							<u> </u>
							
) is desirous of acquiring
			d interest in and ates of America:		and in and to any Le	ners raten	t(s) that may be granted
JECK BOY	[in an	v foreign countr	ies.				

CHECK BOX IF APPROPRIATE

> NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

> and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

> > **PATENT** REEL: 020653 FRAME: 0485

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

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The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	February 8, 2008 ,	Masahiko TOSAKA Name of Inventor	" We the The
Date	February 8, 2008 .	Tetsuya NAKAMUR Name of Inventor	中村帮也
Date		Name of Inventor	(signature)
Date	· · · · · · · · · · · · · · · · · · ·	Name of Inventor	(signature)
Date		Name of Inventor	(signature)
Date		Name of Inventor	(signature)
			(signature)

November 2005

PATENT REEL: 020653 FRAME: 0486

RECORDED: 03/06/2008