Form PTO-1595 (Rev. 06/04) OMB No. 0651-0027 (exp. 6/30/2005) U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

RECORDATION FO	RM COVER SHEET
Docket No. 024.0149 (05-1158) PATENT	S ONLY
To the Director of the U.S. Patent and Trademark Office: Plear	e record the attached documents or the new address(es) below.
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
	Name: THE BOEING COMPANY
James D. Cotton William L. Merrick Michael L. Watts	Internal Address:
Execution Date(s) 09/27/06: 09/27/06; and 09/27/06. Additional name(s) of conveying party(ies) attached? Yes X No	Street Address: 100 North Riverside
3. Nature of conveyance:	City Okina
X Assignment Merger	City: Chicago
Security Agreement Change of Name	State: IL.
Government Interest Assignment	Country: <u>United States</u> Zip: <u>60606-1596</u>
Executive Order 9424, Confirmatory License	
Other	
	Additional name(s) & address(es) attached? Yes X No
4. Application or patent number(s): A. Patent Application No.(s) 11/536,431	s document is being filed together with a new application. B. Patent No.(s)
Additional numbers at	tached? Yes X No
Name and address to whom correspondence concerning document should be mailed:	Total number of applications and patents involved: 1
Customer No. 55,397	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00
Name: Mark M. Takahashi	Authorized to be charged by credit card
INGRASSIA FISHER & LORENZ, P.C.	X Authorized to be charged to deposit account
Internal Address:	Enclosed
Street Address: 7150 E. Camelback Rd., Ste. 325	None required (government interest not affecting title)
Citiu Cautiodola	8. Payment Information
City: Scottsdale State: AZ Zip: 85251	a. Credit Card Last 4 Numbers
Phone Number: (480) 385-5060	Expiration Date
Fax Number: (480) 385-5061	b. Deposit Account Number 50-2091
Email Address: mtakahashi@ifilaw.com	Authorized User Name Mark M. Takahashi
-v _n -/.	
9. Signature:	September 28, 2006 Date
Signature <u>Mark M. Takahashi (Reg. No. 38,631)</u> Name of Person Signing	Total number of pages including cover sheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

PATENT REEL: 018335 FRAME: 0854

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5/6

SEP-27-2006 12:19 FRUM:BULING

1U:4803855061

Docket No.: 024.0149 (05-1158)

ASSIGNMENT

WHEREAS, James D. Cotton, residing at 18706 SE 45th PL, Issaquah, WA 98027; William L. Merrick, residing at 25819 15th Avenue S, Des Moines, WA 98198; and Michael L. Waus, residing at 6718 50th Avenue E, Tacoma, WA 98443; (hereinafter "Assignor") has invented certain new and useful improvements in THERMAL PROCESSING METHOD FOR IMPROVED MACHINABILITY OF TITANIUM ALLOYS (hereinafter "invention") for which Assignor is making or has made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignor on date(s) listed below.

WHEREAS, The Bocing Company, a corporation organized and existing under the laws of the State of Delaware, US, having a place of business at 100 N. Riverside, Chicago, Illinois 60606-1596, with a mailing address of M/C 1640-2101, 15460 Laguna Canyon Road, Irvine, California 92618, US." (hercinafter called "the Assignee"), is desirous of acquiring the entire right, title and interest in and to the invention within the United States of America and its territorial possessions and all foreign countries any United States or foreign LETTERS PATENT that may be granted therefor.

NOW, THEREFORE, for good and valuable considerations, the receipt which is hereby acknowledged, Assignor has assigned, sold and transferred, and does assign, sell and transfer to the Assignee the entire right, title and interest in and to the invention within the United States of America and its territorial possessions and all foreign countries and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants, and all divisions, relisates, continuations and extensions thereof that may be granted therefor, and the tight to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty including any international convention, for the protection of industrial property, together with the right to extend the protection of the United States LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America. Assignee will hold all rights for its own use and benefit and for the use and benefit of its successors or assigns to the full end of the term for which the LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor requests and authorizes the Commissioner of Patents and Trademarks, US and its foreign counterparts, to issue the LETTERS PATENT when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered title to the invention, which title Assignor warrants to the Assignee. Assignor further agrees that Assignor will, without demanding any further consideration therefor, at the request and expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining sustaining, extending, reissuing or reexamining United States and foreign LETTERS PATENT or the like for the invention, and for maintaining and perfecting the Assignee's right to the invention and LETTERS PATENT particularly in cases of interference conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have signed this Assignment on the date specified below.

James D. Cotton (date)

Michael L. Watts (date)

dichael L. wans

Docket No.: 024.0149 (05-1158)

ASSIGNMENT

WHEREAS, James D. Cotton, residing at 18706 SE 45th PL, Issaquah, WA 98027; William L. Merrick, residing at 25819 15th Avenue S, Des Moines, WA 98198; and Michael L. Watts, residing at 6718 50th Avenue E, Tacoma, WA 98443; (hereinafter "Assignor") has invented certain new and useful improvements in THERMAL PROCESSING METHOD FOR IMPROVED MACHINABILITY OF TITANIUM ALLOYS (hereinafter "invention") for which Assignor is making or has made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignor on date(s) listed below.

WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, US, having a place of business at 100 N. Riverside, Chicago, Illinois 60606-1596, with a mailing address of M/C 1640-2101, 15460 Laguna Canyon Road, Irvine, California 92618, US." (hereinafter called "the Assignee"), is desirous of acquiring the entire right, title and interest in and to the invention within the United States of America and its territorial possessions and all foreign countries any United States or foreign LETTERS PATENT that may be granted therefor.

NOW, THEREFORE, for good and valuable considerations, the receipt which is hereby acknowledged, Assignor has assigned, sold and transferred, and does assign, sell and transfer to the Assignee the entire right, title and interest in and to the invention within the United States of America and its territorial possessions and all foreign countries and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants, and all divisions, reissues, continuations and extensions thereof that may be granted therefor, and the right to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty including any international convention, for the protection of industrial property, together with the right to extend the protection of the United States LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America. Assignee will hold all rights for its own use and benefit and for the use and benefit of its successors or assigns to the full end of the term for which the LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor requests and authorizes the Commissioner of Patents and Trademarks, US and its foreign counterparts, to issue the LETTERS PATENT when granted, in accordance with this assignment.

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IN TESTIMONY WHEREOF, I have signed this Assignment on the date specified below.

James D. Cotton

fichael L. Watts

(date)

William L. Merrick

PATENT

REEL: 018335 FRAME: 0856

			Application Number	11/53	36,431	
			Filing Date	Septe	ember 28, 2006	
TR	ANSMITTAL		First Named Inventor	Jame	es D. Cotton	
	FORM		Group Art Unit	Not Y	et Assigned	
(to be used for all	correspondence after initial filing	g)	Examiner Name	Not Y	et Assigned	
Total Number of	f Pages in this Submission 5	j	Attorney Docket Number		0149 (05-1158)	
			ENCLOSURES		(check al	l that apply)
X Fee Tr	ansmittal Form		X Assignment Papers		1 1	owance
	Fee Attached		(for an Application) Drawing(s)			unication to Group Communication to Board
Amend	lment/Reply	 [Licensing-Related pape	ers		als and Interferences Communication to Group
— —	Response & Amendment	'	Petition		[Appeal	Notice, Brief, Reply Brief) ary Information
	·	L				•
	Affidavits/Declaration(s)	{	Petition to Convert to a Provisional Application		Status L	etter with appropriate copies
Extens	ion of time Request		Power of Allorney, Revoca Change of Correspondence	ation,	· · · · · · · · · · · · · · · · · · ·	closure(s) (please Identify below)
Expres	s Abandonment Request		Address		☐ Asso	onse to Restriction Requirement ciate Power of Attorney
Informa	ation Disclosure Statement		Terminal Disclaimer		☐ RCE	y of Notice to File Missing Parts
Certifie	d Copy of Priority Documents		Request for Refund			
Respon	nse to Missing Parts/	[CD, Number of CDs		-	
Incomp	plete Application	Re	marks			
	Response to Missing Parts					
	Under 37 CFR 1.52 or 1.53					
	SIGNATUR	Ë OF	APPLICANT, ATTORN	IEY, (OR AGENT	
Firm or Individual	Mark M. Takahashi				Registration No.	38,631
Signature	mTa					
Date	September 28, 2006					
5000	<u> </u>	IFIC	ATE OF TRANSMITTAL	/MAI	LING	,
States Postal Ser	at this correspondence is being rvice with sufficient postage ther ordation Services, Commissione	facsi eon,	mile transmitted to facsimile r as first-class mall, in an envet	number	r <u>(571) 273-0140</u> or d Idressed to:	•
Typed or printed	d name Mark M. Takahas	shi				
Signature	727				Date S	eptember 28, 2006

PATENT REEL: 018335 FRAME: 0857

PTO/SB/17 (10-04v2)
Approved for use through 07/3 //2006, OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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FEE TRANSMITTAL for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

(\$) 40.00 TOTAL AMOUNT OF PAYMENT

Co	Complete If Known	
Application Number	11/536,431	
Filing Date	September 28, 2006	
First Named Inventor	James D. Cotton	
Examiner Name		
Art Unit		·
Attorney Docket No.	024.0149 (05-1158)	

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)	
Check Credit card Money Other None	3. ADDITIONAL FEES	
Deposit Account:	Large Entity Small Entity	
Deposit 50 0004	Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	ee Paid
Account SU-ZU91	1051 130 2051 65 Surcharge - late filing (ce or cath	
Doposit Account Ingrassia Fisher & Lorenz	1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet	
Name Inc. The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification	
Charge fee(s) indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the fitting fee to the above-identified deposit account.	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month	
1. BASIC FILING FEE	1252 430 2252 215 Extension for reply within second month	
Large Entity Small Entity	1253 980 2253 490 Extension for reply within third month	
Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254 1,530 2254 765 Extension for reply within fourth month	
1001 790 2001 395 Utility filing fee	1255 2,080 2255 1,040 Extension for reply within fifth month	
1002 350 2002 175 Design filing fee	1401 340 2401 170 Notice of Appeal	
1003 550 2003 275 Plant filing fee	1402 340 2402 170 Filing a brief in support of an appeal	
1004 790 2004 395 Relssue flling fee	1403 300 2403 150 Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding	
SUBTOTAL (1) (\$)	1452 110 2452 55 Petition to revive - unavoidable	
	1453 1,370 2453 685 Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501 1,370 2501 685 Utility issue fee (or reissue)	
Extra Claims below Fee Paid Total Claims 20**= X =	1502 490 2502 245 Design issue fee	
Independent	1503 660 2503 330 Plant issue fee	
Claims Multiple Dependent	1480 130 1460 130 Petitions to the Commissioner	
	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)	
Largo Entity Small Entity Fee Fee	1806 180 1806 180 Submission of Information Disclosure Stmt	
Code (\$) Code (\$)	8021 40 8021 40 Recording each petent assignment per 2 property (times number of properties)	40.00
1202 18 2202 9 Claims in excess of 20 1201 88 2201 44 Independent claims in excess of 3	1809 790 2809 395 Filing a submission after final rejection	
1201 88	(37 CFR 1.129(a)) 1810 790 2810 395 For each additional invention to be	
	examined (37 CFR 1.129(b))	
1204 88 2204 44 "Reissue Independent clalms over original patent	1801 790 2801 395 Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue clalms in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application	
SUBTOTAL (2) (\$)	Other fee (specify)	
**or number previously paid, If greater; For Relssues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.0	00

SUBMITTED BY			(Complete	(if applicable))
Name (Print/Type)	Mark M. Takahashi	Registration No. 38,631 (Altorney/Agent)	Telephone	480-385-5060
Signature	Milm		Date	September 28, 2006

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PATENT

INGRASSIA FISHER & LORENZ, P.C.

7150 E. CAMELBACK, SUITE 325

SCOTTSDALE, ARIZONA 85251

Telephone: (480) 385-5060 Facsimile: (858) 755-6240

to: Assignment Recordation Services	rrom: Matk M. Takabashi (Reg. No. 38,631)
COMPANY: USPTO Art Unit No.	ідтус:
FAX NUMBER: 571 273 0140	THURSDAY, SEPTEMBER 28, 2006 TOTAL NO. OF PAGES INCLUDING COVER: 6
PHONE NUMBER:	sender's reference number: 024.0149 (05-1158)
RE: Recordation of Assignment	reference number: 11/536,431

NOTES/COMMENTS:

FORMAL COMMUNICATION INTENDED FOR ENTRY

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RECORDED: 09/28/2006

PATENT REEL: 018335 FRAME: 0859