OCT 1 1 2005 10-17-2005 Atty Docket No.: 275709US41 PADEMA ECORDATION F FORM PTO-1595 06-04 S. DEPARTMENT OF COMMERCE PATEN'. Patent and Trademark Office To the Director of the United States Patent and Trademark Off nents or copy thereof. 103101436 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Alain Jean Charles CHATEL Name: **SNECMA** Laurent Gilles DEZOUCHE Address: 2, Boulevard du Général Martial Valin 75015 Philippe JOLY Paris, France Additional name(s) of conveying party(ies) attached?

Yes No 3. Nature of Conveyance: Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: July 12, 2005 Additional name(s) and address(es) attached?

Yes No 4. Application number(s) or patent number(s): ☐ This document is being filed together with a new application A. Patent Application No.(s) B. Patent No.(s) 11/187,852 Additional numbers attached?

Yes 5. Name and address of party to whom correspondence 6. Total applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 Customer Number Enclosed 22850 ☐ Authorized to be charged to deposit account Tel. (703) 413-3000 8. Deposit account number: 15-0030 Fax. (703) 413-2220 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 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. 10-10-05 Philippe J.C. Signore, Ph.D. Name of Person Signing

Registration Number: 43,922

Total number of pages including this cover sheet: 3

Do not detach this portion

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

Director of the United States Patent and Trademark Office Mail Stop Assignment Recordation Services Alexandria, Virginia. 22313

I:\USER\MYAMO\27's\275\275709US PTO 1595 FORM.DOC

10/12/2005 SSITHIB1 00000144 11187852

01 FC:8021

40.00 OP

PATENT REEL: 017078 FRAME: 0527

Assignment of Application

Page 1 of 2

WHEREAS, I (WE)	CHATEL Alain, Jean, Charles 225 rue du Buisson de Massour	y 77000	VAUX -LE- PENIL	FRANCE
	DEZOUCHE Laurent Gilles 47 rue des Ecoles		COUDRAY MONTCEAU	FRANCE
	JOLY Philippe	2,030	COUDING MONICEPING	1,421,02
	1 bis, Allée des Chataigniers		VAUX LE PENIL	FRANCE
_		_		
				
				, respectively,
		•		
have incomes a sentate				
nave invented certain	new and useful improvements in:	A RO	TOR DISK FOR A TURBO	MACHINE.
for which on onelined	on Son I address Detections on the contract	4		
for which all application	on for Letters Patent was executed	1 On _	July 12, 2005	
(Application No1	<u>1/187,852</u> , fik	ed	July 25, 2005), and
WHEREAS, SN	ECMA			
		<u> </u>		· · · · · · · · · · · · · · · · · · ·
(neremaner referred to	as "ASSIGNEE") having a place	e of busin	ess at:	
2, Boulevard du Génér	ral Martial Valin 75015 PAR	JS	FRANCE	
is desirous of acquirin	g the entire right, title and interest	t in and to	said invention and in and to	any Letters Patent
countries;	therefore in the United States ar	ad its ten	ritorial possessions and in a	ny and all foreign
NOW, TH	EREFORE, in consideration of the	he sum o	f FIVE DOLLARS (\$5.00), t	he receipt whereof
is hereby acknowledge	ed, and for other good and valuable	le conside	eration, I (WE), by these pres	ents do sell, assign
territorial possessions	ASSIGNEE, the full and exclusion and in all foreign countries and	ve right to the entir	o the said invention in the Ut c right, title and interest in	and to any and all
Letters Patent which r	nay be granted therefore in the U	nited Stat	tes and its territorial possessi-	ons and in any and
all foreign countries a	and in and to any and all divisi-	ons, reiss	sues, continuations, substitut	ions and renewals
I (WE) h	ereby authorize and request the	e Patent	Office Officials in the Uni	ted States and its
territorial possessions	and any and all foreign countries	to issue a	any and all of said Letters Par	tent when granted
and behoove of said	the assignee of my (our) entire ri ASSIGNEE, its (his) successors	and assig	ens, to the full end of the te	rm for which said
Letters Patent may be	e granted, as fully and entirely a	is the sar	ne would have been held by	y me (us) had this
Assignment and sale n	ot been made.			

PATENT REEL: 017078 FRAME: 0528 Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 12. d 105-	that the same of t
Ι,	(Signature of Inventor) CHATEL Alain, Jean, Charles
Date: 12.01.05	
	(Signature of Inventor) DEZOUCHE Laurent Gilles
Date: 12, 2005 -	
, v	(Signature of Inventor) JOLY Philippe
Date:	
_	(Signature of inventor)
Date:	
	(Signature of Inventor)
Date:	
	(Signature of inventor)
Date:	
	(Signature of Inventor)
Date:	
	(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MATER & NEUSTADT, P.C.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

RECORDED: 10/11/2005

PATENT REEL: 017078 FRAME: 0529