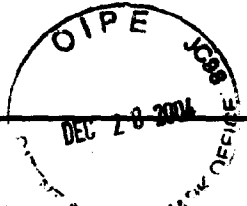


BOX ASSIGNMENTS



01-04-2005



RECORDATION FORM COVER SHEET
PATENT APPLICATIONS & PATENTS ONLY

TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS:

102903017

SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

- 1. Jagnandan Kuman Bhangu
- 2. John William Harrison

- 3.
- 4.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: ROLLS-ROYCE plc

ADDRESS: 65 Buckingham Gate, London SW1E 6AT, England

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation -- multiple copies of same Assignment signed by different inventors is one document)

- ASSIGNMENT OF WHOLE PART INTEREST
 - CHANGE OF NAME VERIFIED TRANSLATION
 - SECURITY MERGER OTHER:
- EXEC. DATE: 09/25/2003 AND 09/26/2003

4. EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ↑↓ DIFFER SEE ATTY!):

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no	M#	1ST INVENTOR if not in item 1	B. PATENT NO(S)	M#	1ST INVENTOR if not in item 1
10/702,547	84704				

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

W. Warren Taltavull
Manelli, DENISON & SELTER PLLC
SEVENTH FLR.
2000 M STREET N.W.
WASHINGTON, D.C. 20036

6. NUMBER INVOLVED:

APPLNS 1 + PATS: = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL X \$40 = \$ 40

5.5 ATTY DKT

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 50-0687

UNDER ORDER NO	84704
dup. sheet not required	CLIENT NO. MATTER NO.

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.

W. Warren Taltavull
Signature

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	3
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Attorney: W. Warren Taltavull
Reg. No. 25647

Date: Dec 28, 2004

01/03/2005 09:07 AM 00000025 10702547 TEL: (202) 261-1047

Fax: (202) 887-0336

01 FC:8021 40.00 UP

Please return signed/recorded to:

USA Patent Appln.
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For Inventions made outside USA
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Atty. Dkt.	73155	2547
	M#	Client Ref.

Manelli, Denison & Selter PLLC
2000 M Street N.W., 7th Floor
Washington, D.C. 20036

NONPROVISIONAL

**ASSIGNMENT
OF NONPROVISIONAL APPLICATION**

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1)	Jagnandan Kumar Bhangu	(4)
(2)	John William Harrison	(5)
(3)		<input type="checkbox"/> X box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

Rolls-Royce plc, a British Company of
65 Buckingham Gate
London
SW1E 6AT
England

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

INVESTMENT MOULDING PROCESS AND APPARATUS

For which the undersigned executed an application for Letters Patent of the United States of America:

NOTE (A) even date herewith
(B) on _____
(C) in U.S. Application No. _____ / _____ filed _____

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE.

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Manelli, Denison & Selter PLLC, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

<u>INVENTOR(S)</u>	<u>DATE SIGNED</u>	<u>WITNESSES</u>
1) Name: <u>Jagnandan Kumar Bhangu</u>	_____	_____
2) Name: <u>John William Harrison</u>	<u>26 Sept 2003</u>	<u>D. Riezu</u>
3) Name: _____	_____	_____
4) Name: _____	_____	_____
5) Name: _____	_____	_____

IF ADDITIONAL INVENTORS, check box and continue on page 2.

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Atty. Dkt.	73155	2547
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INSERT NAME(S) OF INVENTOR(S)	(1) Jagnandan Kumar Bhangu	(4)
	(2) John William Harrison	(5)
	(3)	[] X box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT NAME(S) OF ASSIGNEE(S) & ADDRESS(ES)	Rolls-Royce plc, a British Company of
	65 Buckingham Gate
	London
	SW1E 6AT
	England

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF INVENTION: **INVESTMENT MOULDING PROCESS AND APPARATUS**

For which the undersigned executed an application for Letters Patent of the United States of America:

NOTE (A) even date herewith
 (COMPLETE) (B) [] on _____
 LINES A,B. AND/OR C (C) [] in U.S. Application No. _____ / _____ filed _____

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE.

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INVENTOR(S)	DATE SIGNED	WITNESSES
1) <u>Jagnandan K Bhangu</u> Name: Jagnandan Kumar Bhangu	<u>25 Sep 2003</u>	<u>S. S. Bhangu</u>
2) _____ Name: John William Harrison	_____	_____
3) _____ Name: _____	_____	_____
4) _____ Name: _____	_____	_____
5) _____ Name: _____	_____	_____

IF ADDITIONAL INVENTORS, check box [] and continue on page 2.