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	B. Execution Date: <u>All - April 29, 2010</u>		
4.	A. Patent Application No. <u>13/259,683</u>	B. Patent No.(s)	
	Additional numbers	attached? 🔲 Yes 🖾 No	
	C. Title of Application: POSITION ENCODE	R APPARATUS	
5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: $\underline{1}$	
	Name: James A. Oliff	 Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00. 	
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9.	Statement and signature. To the best of my knowledge and belief, the foregoing inf	formation is true and correct and any attached copy is a true copy of	
	the original document. James A. Oliff Registration No. 27,075 Matthew C. Barthalow Registration No. 60,323	Date: <u>October 5, 2011</u>	

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	 A. Name of conveying parties: (1) lain R. GORDON-INGRAM (2) Andrew P. GRIBBLE (3) Simon E. MCADAM 	2. A. Name and address of receiving party: RENISHAW PLC NEW MILLS
	B. Additional name(s) of conveying party(ies) attached? Yes X No	WOTTON-UNDER-EDGE GLOUCESTERSHIRE GL12 &JR UNITED KINGDOM
	3. A. Nature of conveyance:	B. Additional name(s) & address(es) attached?
	Assignment Merger	□Yes ⊠No
	Security Agreement Change of Name	
	Other	
	B. Execution Date: (ALL.) April 29, 2010	
	4. A. Patent Application No. 13/259,683	B. Pateni No.(s)
	Additional numbers attac	bed? 🗌 Yes 🖾 No
	C. Title of Application: POSITION ENCODER APPA	RATUS
	 Name and address of party to whom correspondence concorning document should be mailed; 	6. Total number of applications and patents involved: 1
	Name: James A. Oliff	 Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.
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	9. Statement and signature.	
	To the best of my knowledge and belief, the foregoing information original document,	n is true and correct and any attached copy is a true copy of the Date: September 23, 2011
	James A. Oliff Registration No. 27,075 Matthew C. Barthalow Registration No. 60,323	

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ASSIGNMENT

	(1) <u>lain R Gordon-Ingram</u> (5)
(1-8) Insert	(2) <u>Andrew P Gribble</u> (6)
Name(s) of Inventor	
	(4)
	In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to
(9) Insert Name Assignee	of (9) RENISHAW plc
(10) Insert Addr Assignee	
(11) Insert Identification	
such as Title, Number, or F	
Application N	
	for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or
(12) Insert Date of Signing of Application	(12) on
(13) Alternative	(13) U.S. application Serial Number <u>13/259,683</u>
Identification filed applicat	

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLUFF & BERRIDGE, PLC the power to insert on this assignment any further identification that 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.

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

Date	29TH APRIL 2010	Inventor Signature(SEAL)
Date	29th APRIL 2010	Inventor Signature Auffault	SEAL)
Date	29th APRIL 2010	Inventor Signature Manager (SEAL)
Date		Inventor Signature (SEAL)
Date		Inventor Signature	SEAL)
Date	······································	Inventor Signature (i	SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here: ////

Date	29**	APRIL	200
Date	29.92	APRIL	2010
Date			
Date			

Witness	Fruth
Witness	Acobos
Witness	
Witness	

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RECORDED: 10/05/2011