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Alexandria, VA 22313-1450		Att	orney Docket No. <u>152015</u>		
Please record the attached documer Total number of pages including co		nent: 2			
 A. Name of conveying parti Ilpo AURANEN Jukka RAATIKA B. Additional name(s) of conveyance: 3. A. Nature of conveyance: 	[IMA- LUOT FI-022	a address of receiving party: ENGINEERING LTD OY FEISRINNE 4 A, 270 ESPOO, FINLAND al name(s) & address(es) attached? □Yes ⊠ No		
 Assignment Security Agreement Other B. Execution Date: <u>ALL</u> 					
4. A. Patent Application No.(s	13/384,029	B. Patent No	ɔ.(s)		
Additional numbers attached? □ Yes ⊠ No C. Title of Application: METHOD FOR DETERMINING THE ORE CONTENT OF DRILL CUTTINGS					
 Name and address of party to concerning document should I 	whom correspondence be mailed:	6. Total number of	of applications and patents involved: 1		
Name: <u>James A. Oliff</u>		7. Please cha total fee (3	arge Deposit Account No. 15-0461 the 37 CFR 3.41) in the amount of \$ <u>40.00</u> .		
Address: OLIFF & BEF P.O. Bos Alexandria, V. Phone Number Fax Number:	: 320850 A 22320-4850 : 703-836-6400	 Credit any ove deposit accourt 	rpayment or charge any underpayment to at number 15-0461.		
 Statement and signature. To the best of my knowledge of original document James A. Oliff, Regultration M David W. Anderson, Registra 	lo. 27,075		nd any attached copy is a true copy of the June 19, 2012		

ASSIGNMENT

	Insert	(1) Ilpo AURANEN (5)		
(1-8)	Name(s)	(2) Jukka RAATIKAINEN (6)		
	of Inventor(s)	(3) (7)		
		(4) (8)		
		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		
(9)	Insert Name of Assignee	(9) IMA-ENGINEERING LTD OY		
(10)	Insert Address of Assignee	(10) Luoteisrinne 4 A, FI-02270 Espoo, Finland		
(11)	Insert	 (hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as (11) METHOD FOR DETERMINING THE ORE CONTENT OF DRILL 		
	Identification such as Title, Case Number, or Foreign			
		CUTTINGS		
Application Number (Atta		(Attorney Docket No. 152015)		
(12)	Insert Date of Signing of Application	for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or (12) on		
(13)	Alternative	(13) U.S. application Serial Number 13/384,029		
	Identification for			
	filed applications	filed June 19, 2012		

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

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 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 egrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.
6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, FLC 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.

recordation of this document.

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

Date	May 24 2012	Inventor Signature Sky a ((SEAL)
Date	May 24 2012	Inventor Signature	(SEAL)
Date	·	Inventor Signature	(SEAL)
Date	·	Inventor Signature	(SEAL)
Date		Inventor Signature	(SEAL)
Date		Inventor Signature	(SEAL)
Date		Inventor Signature	(SEAL)
Date		Inventor Signature	(SEAL)
neither,	This assignment should preferably be signed then it should be signed before at least two wi	before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the transverse who also sign here:	ə U.S.A. If

24,2012 Date

Witness Witness

PATENT **REEL: 028419 FRAME: 0599**

Tout dijen fung

RECORDED: 06/19/2012

Date