## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Takahiro Ueda	04/26/2013
Koutarou Hori	04/26/2013
Tadashi Taninaga	04/26/2013
Hisataka Fukasu	04/26/2013
Takashi Itoi	04/26/2013

### RECEIVING PARTY DATA

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#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13825102

#### CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	92763(302753)	
NAME OF SUBMITTER:	James E. Armstrong, IV	
Signature:	/James E. Armstrong, IV/	
Date:	05/29/2013	

Total Attachments: 1

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CH \$40.00

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))

KOMATSU LTD.				
2-3-6, Akasaka, Minato-ku, Tokyo 107-8414 Japan				
ASSIGNEE the entire and exclusive right, title and interest to the	wiedged, the undersigned ASSIGNOR hereby sells, assigns and transfers to invention entitled  ACHINE AND MANAGEMENT METHOD OF MINING			
MACHINE				
relating to International Patent Application PCT/JP2012/07 was executed on even date herewith or, if not so executed, was:	73370 and/or for which application for Letters Patent of the United States			
(a) executed on	(Insert date of execution of application, if not concurrent)			
(b) filed on March 19, 2013, Scrial No. 13/825, 102;	Assignce's attorney is hereby authorized to insert in (b) the specified data, when known.			

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and proceeding of said application(s) and the issuance of said Letters Patent(s), in any interference, relssue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

, Tueda	Takahiro UEDA	Apr. 26, 2013
(Signature)	(Type Name)	(Daté)
a Kautama Hari	Koutarou HORI	Apr. 26, 2013
2) Signature)	(Type Name)	(Date)
» (Clauroa)	Tadashi TANINAGA	Apr. 26, 2013
3) V NAMPEAN (Signature)	(Type Name)	(Date)
4) Hisataka Jukasu	Hisataka FUKASU	Apr. 26, 2013
(Signature)	(Type Name)	(Date)
7. 1. 1. 1. 1	Takashi ITOI	Apr. 26, 2013
5) WMA Signature)	(Type Name)	(Date)

PATENT REEL: 030503 FRAME: 0802

RECORDED: 05/29/2013