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PATENT, TRADEMARK AND COPYRIGHT LAW

LEB

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RECORDATION COVER SHEET - PATENT APPLICATION

NAME OF CONVEYING PARTY : Tetsuji HAYASHI and Kenichi KUGA

: KAYABA KOGYO KABUSHIKI KAISHA NAME OF RECEIVING PARTY

ADDRESS OF RECEIVING PARTY : Sekai Boeki Center Bldg., 4-1, Hamamatsu-cho

2-chome, Minato-ku, Tokyo, JAPAN

NATURE OF CONVEYANCE : Assignment of U.S. patent application

CONVEYANCE EXECUTION DATE : October 19, 1998

PATENT APPLICATION NO. : 09/077,822

APPLICATION FILED TOGETHER

WITH THIS DOCUMENT : No

APPLICATION EXECUTION DATE : July 3, 1998

CORRESPONDENCE ADDRESS : RABIN & CHAMPAGNE, P.C.

1725 K Street, N.W., Suite 1111

Washington, D.C. 20006

: GOT 105 NP ATTORNEY REFERENCE

TOTAL NUMBER OF PATENTS

AND APPLICATIONS INVOLVED : One

TOTAL FEE PAID : \$40.00

METHOD OF PAYMENT : [X] Enclosed

Authorized to be charged to

deposit account

In the event there is attached hereto no check, or a check for an insufficient amount, please charge the fee to our Account No. 18-0002 and notify us accordingly.

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.

03/30/2000 DHGUYEN 00000041 09077822

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February 2

Date

Robert H. Berdo, Jr. (Reg. No. 38,075)

RHB/rw

Total number of pages including cover sheet, attachments and document: 2

PATENT REEL: 010641 FRAME: 0094 WHEREAS

RECORDED: 02/24/2000

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Tetsuji HAYASHI and Kenichi KUGA

[] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office; [X] said application having been filed in the United States Patent and Trademark Office on June 4, 1998, authorization being hereby given to my attorneys, Steven M. Rabin, Thomas M. Champagne, and Robert H. Berdo, Jr., and Douglas J. Ryder of RABIN & CHAMPAGNE, P.C., 1725 K Street, N.W., Washington, D.C. 20006, to insert here in parentheses (Application Serial No09/077,822); [X] said application having been filed under the Patent Cooperation Treaty onNovember 29, 1996_, Serial NoPCT/JP96/03505_, the United States of America being designated. AND WHEREASKAYABA KOGYO KABUSHIKI KAISHA, Sekai Boeki Center Bldg., 4-1, Hamamatsu-cho 2 chome, Minato-ku, Tokyo, Japan, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said	hereinafter referred to collectively as the	assignor, has invented a certain improvement
iapplication to be filed in the United States Patent and Trademark Office;	<u> </u>	VANE PUMP .
iveing hereby given to my attorneys, Steven M. Rabin, Thomas M. Champagne, and Robert H. Berdo, Jr., and Douglas J. Ryder of RABIN & CHAMPAGNE, P. C. 1725 K. Street, N.W., Washington, D.C. 20006, to insert here in parentheses (Application Serial No09/077.822); XI said application having been filed under the Patent Cooperation Treaty on _November 29, 1996 _Serial NoPCT/JP96/03505 _ the United States of America being designated. AND WHEREAS _KAYABA KOGYO KABUSHIKI KAISHA, Sekal Boeki Center Bidg., 4-1, Hamamatsu-cho 2 chome, Minato-ku, Tokyo, Japan, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignee, and said assignee's successors and assigns, the full and exclusive interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, and all all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, and in and to said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoyate the said application, including any and all renewals, reissues and prolongations thereof, with all the use and benefit of and during any end all renewals, reissues and prolongations thereof, with all the use and benefit of and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof		
chome, Minato-ku, Tokyo, Japan, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all all divisions and continuations thereof, and in and its said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said application including any and all divisions and continuations thereof, and the said application, powers, privileges and advantages in anywise anising from or appertaining thereto, for and during the term so dray and all such patents when granted, including any and all renewals, reissues and prolongations thereof, the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor hereby agrees to perform, upon the request of said assignment had not been made. AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors of assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof. EXECUTED, this 17 day of October 1998. ASSIGNOR: Signature: Signature: Signature: Signature: Name: Manne:	being hereby given to my attorneys, Sterneys, Sterneys, Sterneys, Sterneys, Ryder of RABIN & CHAMPAGNE, P.C. (Application Serial No. 09/077,822); [X] said application having been filed under the control of the contro	ven M. Rabin, Thomas M. Champagne, and Robert H. Berdo, Jr., and Douglas C., 1725 K Street, N.W., Washington, D.C. 20006, to insert here in parentheses der the Patent Cooperation Treaty on <u>November 29, 1996</u> ,
and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assigne hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all premates which may be granted therefor, including any all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term of the use and benefit of said assignee, and said assignee's successors and assigns thereto, for and during the term of the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor hereby agrees to perform, upon the request of said assignment had not been made. AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors of assigns, any and all renewals, reissues and prolongations thereof. AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Paten on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith. EXECUTED, this / Perdoy of October , 1998. WITNESSES: Signature: Name:	AND WHEREAS KAYABA KOGYO) KABUSHIKI KAISHA, Sekai Boeki Center Bldg., 4-1, Hamamatsu-cho 2
invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assigner, the receipt of which is hereby acknowledged, said assignes hereby assigns, sells and transfers to said assignee, and said assignees successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and it said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all brights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term of terms of any and all such patents which granted, the including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns in as ample and benefitial a manner as the said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors of assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof. AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Paten on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith. EXECUTED, thisfate	chome, Minato-ku, Tokyo, Japan, herein	after referred to as the assignee, is desirous of acquiring the entire right, title
prolongations thereof; NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignes to said assigner of the receipt of which is hereby acknowledged, said assigner hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, successors and assigns, to have, hold, exercise and enjoy the said application, including any and all renewals, reissues and prolongations thereof, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term of terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, but said assigner and prolongations thereof, and the said assigner might or could have held and enjoyed the same, if this assignment had not been made. AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors of assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof. AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Paten on said application, and on any and all divisions and continuations thereof, to said assignee's successor	and interest in and to said application, in	cluding any and all divisions and continuations thereof, and in and to said
NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignee hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made. AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof. AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Paten on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith. EXECUTED, this 12 day of October 1998. Name: Name: Kenichi Kuga	invention and any and all patents which	may be granted therefor, including any and all renewals, reissues and
consideration paid by said assignee to said assigner, the receipt of which is hereby acknowledged, said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made. AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof. AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Paten on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith. EXECUTED, this 174 day of October 1998. Name: Signature: Name: Kenichi KUGA	prolongations thereof;	
assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof. AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Paten on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith. EXECUTED, this / graday of October 1998. WITNESSES: ASSIGNOR: Signature: Signature: Itauric Mayashi Name: Tetsuji HAYASHI Address: Signature: Signature: Kenichi KUGA	hereby assigns, sells and transfers to sa right, title and interest in and to said appsaid invention and any and all patents prolongations thereof; said assignee, at the said application, including any and patents which may be granted therefor, rights, powers, privileges and advantag terms of any and all such patents when the use and benefit of said assignee, an	aid assignee, and said assignee's successors and assigns, the full and exclusive olication, including any and all divisions and continuations thereof, and in and to which may be granted therefor, including any and all renewals, reissues and nd said assignee's successors and assigns, to have, hold, exercise and enjoy all divisions and continuations thereof, and the said invention and any and all including any and all renewals, reissues and prolongations thereof, with all the granted, including any and all renewals, reissues and prolongations thereof, for granted, including any and all renewals, reissues and prolongations thereof, do a said assignee's successors and assigns, in as ample and beneficial a manner
on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith. EXECUTED, this 197 day of October , 1998. WITNESSES: ASSIGNOR: Signature: Signature: Name: Name: Tetsuji HAYASHI Address: Signature: Signature: Name: Kenichi KUGA	assigns, any and all acts relating to the	
WITNESSES: Signature: Name: Name: Signature: Name: Signature: Name: Signature: Name: Signature: Name: Signature: Name: Signature: Name: Name: Kenichi KUGA	on said application, and on any and all of	tivisions and continuations thereof, to said assignee, and said assignee's
Signature: Signature: Letwic Karpashi Name: Tetsuji HAYASHI Address: Signature: Signature: Kenichi Kuga Name: Name: Kenichi KUGA	EXECUTED, this / 9	day of October, 1998.
Signature: Signature: Letwie Karpashi Name: Tetsuji HAYASHI Address: Signature: Signature: Kenichi Kuga Name: Name: Kenichi KUGA	WITNESSES:	ASSIGNOR:
Name: Name: Tetsuji HAYASHI Address: Signature: Signature: Name: Name: Kenichi KUGA		Signature: Leturi Kanshi
Address: Signature: Name: Name: Kenichi KUGA		Name: Tetsuji HAYASHI
Name: Name: Kenichi KUGA		
Name: Name: Kenichi KUGA		Ainchi Ruga
	· -	Oglicaro.
Address:	Name:	Name: Kenichi KUGA
	Address:	
	RABIN & CHAMPAGNE, P.C., Washing	rton, D.C.

PATENT REEL: 010641 FRAME: 0095