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Date: December 10, 2003

Name: Joan Agostini

Signature: *Joan Agostini*  
*Schulte Roth & Zabel LLP*

Docket No. 57517-0046

Commissioner of Patents  
**Box Assignment**  
P.O. Box 1450  
Alexandria, VA 22313-1450

Please record the attached original document(s) or copy(ies) thereof:

<b>Conveying party(ies):</b>	
Ralf Dittes	07/29/03
Helmut Huencke	07/22/03
Joerg Hoffmann	07/21/03
Jurgen Oelsch	07/21/03
Thilo Rehm	07/21/03
Mathias Wildpreth	07/24/03
Olaf Winterhalter	07/29/03

<b>Receiving party:</b>
Minebea Co., Inc. 4106-73 Oaza Miyota, Miyota-machi Kitasaku-gun, Nagano 389-0293 JAPAN

<b>Conveyance Type:</b>	
<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Security Agreement
<input type="checkbox"/> License	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Merger	<input type="checkbox"/> Other _____

<b>Submission Type:</b>	
<input checked="" type="checkbox"/> New	
<input type="checkbox"/> Resubmission: Doc. ID# _____	
<input type="checkbox"/> Correction of PTO error	Reel _____
<input type="checkbox"/> Corrective Document	Frame _____

**Application or Patent Number(s):**

Enter either Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for same property)

**Patent Application Number(s)**

**Patent Number(s)**

10/621,756

If this document is being filed with a new application, The application was signed by the first named executing inventor on: \_\_\_\_\_

**Correspondence Address:**

*Anna Vishev*  
**SCHULTE ROTH & ZABEL LLP**  
919 Third Avenue  
New York, NY 10022  
Telephone: (212) 756-2167  
Facsimile: (212) 593-5955

**Number of Properties:**

Total number of properties involved: 1

**Fee:**

Total fee under 37 CFR 1.21(h) (\$40/per) \$40.00

- Enclosed
- Authorized to charge to Deposit Account Number: **50-0675**, order no. 057517-46. A duplicate copy of this cover sheet is attached.
- Please apply any additional fee or any credits to Deposit Account 50-0675.

**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.

Anna Vishev, Reg. No. 45,018

*Anna Vishev*  
Signature

December 10, 2003  
Date

CH \$40.00 500675 10621756

57517-46

ASSIGNMENT

WHEREAS, Ralf Dittes, a citizen of Germany, having a mailing address at Hermannstr. 26, D-78532 Tuttlingen, Germany (hereinafter "the Assignor"), has invented certain new and useful improvements in **HYDRODYNAMIC THRUST BEARING** and

WHEREAS, Minebea Co., Ltd. (hereinafter "the Assignee"), a Japanese corporation, having a principal place of business at 4106-73 Oaza Miyota, Miyota-machi, Kitasaku-gun, Nagano 389-0293 Japan, is desirous of acquiring the entire right, title and interest in and to said Application and the invention described therein, and each and every patent that can be issued on said invention in the United States of America and in its territories and possessions, and in all countries foreign to the United States of America;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents do hereby sell, assign and transfer, unto the Assignee his full and exclusive right, title and interest in and to the aforesaid application, all inventions or discoveries disclosed or claimed therein, any continuation, continuation-in-part, division, renewal, extension, substitute, reexamination, or reissue applications thereof, all treaty and convention rights and all rights of priority arising from the aforesaid applications, all applications claiming priority therefrom, and each and every patent that may be issued on the aforesaid inventions and applications in the United States of America, and in its territories and possessions and also in all countries foreign to the United States of America, the same to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors, assigns

or other legal representatives to the end of the term or terms for which a patent or patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent on the aforesaid invention or resulting from the aforesaid application directly to the Assignee.

Assignor hereby authorizes the Assignee and its successors to apply for a patent or patents directly in its own name upon the aforesaid invention wherever the same is permitted by law, and also assign, sell, transfer and set over unto the Assignee and its successors all priority rights under the aforesaid application.

Assignor further covenants to execute all additional instruments and to do all things necessary to carry out the purpose of this instrument, at the expense of the Assignee and its successors.

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

Date: 05.08.03

R. Dittes  
Ralf Dittes

57517-46

ASSIGNMENT

WHEREAS, Joerg Hoffmann, a citizen of Germany, having a mailing address at Saarecksstrasse 9, D-66693 Mettlach, Germany (hereinafter "the Assignor"), has invented certain new and useful improvements in **HYDRODYNAMIC THRUST BEARING** and

WHEREAS, Minebea Co., Ltd. (hereinafter "the Assignee"), a Japanese corporation, having a principal place of business at 4106-73 Oaza Miyota, Miyota-machi, Kitasaku-gun, Nagano 389-0293 Japan, is desirous of acquiring the entire right, title and interest in and to said Application and the invention described therein, and each and every patent that can be issued on said invention in the United States of America and in its territories and possessions, and in all countries foreign to the United States of America;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents do hereby sell, assign and transfer, unto the Assignee his full and exclusive right, title and interest in and to the aforesaid application, all inventions or discoveries disclosed or claimed therein, any continuation, continuation-in-part, division, renewal, extension, substitute, reexamination, or reissue applications thereof, all treaty and convention rights and all rights of priority arising from the aforesaid applications, all applications claiming priority therefrom, and each and every patent that may be issued on the aforesaid inventions and applications in the United States of America, and in its territories and possessions and also in all countries foreign to the United States of America, the same to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors, assigns

or other legal representatives to the end of the term or terms for which a patent or patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent on the aforesaid invention or resulting from the aforesaid application directly to the Assignee.

Assignor hereby authorizes the Assignee and its successors to apply for a patent or patents directly in its own name upon the aforesaid invention wherever the same is permitted by law, and also assign, sell, transfer and set over unto the Assignee and its successors all priority rights under the aforesaid application.

Assignor further covenants to execute all additional instruments and to do all things necessary to carry out the purpose of this instrument, at the expense of the Assignee and its successors.

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

Date: 28.08.2003

  
\_\_\_\_\_  
Joerg Hoffmann

57517-46

ASSIGNMENT

WHEREAS, Thilo Rehm, a citizen of Germany, having a mailing address at Oderstrasse 108, D-78052, Villingen-Schwenningen, Germany (hereinafter "the Assignor"), has invented certain new and useful improvements in **HYDRODYNAMIC THRUST BEARING** and

WHEREAS, Minebea Co., Ltd. (hereinafter "the Assignee"), a Japanese corporation, having a principal place of business at 4106-73 Oaza Miyota, Miyota-machi, Kitasaku-gun, Nagano 389-0293 Japan, is desirous of acquiring the entire right, title and interest in and to said Application and the invention described therein, and each and every patent that can be issued on said invention in the United States of America and in its territories and possessions, and in all countries foreign to the United States of America;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents do hereby sell, assign and transfer, unto the Assignee his full and exclusive right, title and interest in and to the aforesaid application, all inventions or discoveries disclosed or claimed therein, any continuation, continuation-in-part, division, renewal, extension, substitute, reexamination, or reissue applications thereof, all treaty and convention rights and all rights of priority arising from the aforesaid applications, all applications claiming priority therefrom, and each and every patent that may be issued on the aforesaid inventions and applications in the United States of America, and in its territories and possessions and also in all countries foreign to the United States of America, the same to be held and enjoyed

by the Assignee for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives to the end of the term or terms for which a patent or patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.


Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent on the aforesaid invention or resulting from the aforesaid application directly to the Assignee.

Assignor hereby authorizes the Assignee and its successors to apply for a patent or patents directly in its own name upon the aforesaid invention wherever the same is permitted by law, and also assign, sell, transfer and set over unto the Assignee and its successors all priority rights under the aforesaid application.

Assignor further covenants to execute all additional instruments and to do all things necessary to carry out the purpose of this instrument, at the expense of the Assignee and its successors.

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

Date: 12. Sep. 2003

  
\_\_\_\_\_  
Thilo Rehm

57517-46

ASSIGNMENT

WHEREAS, Mathias Wildpreth, a citizen of Germany, having a mailing address at Fürstenbergring 1, D-78048, Villingen-Schwenningen, Germany (hereinafter "the Assignor"), has invented certain new and useful improvements in **HYDRODYNAMIC THRUST BEARING** and

WHEREAS, Minebea Co., Ltd. (hereinafter "the Assignee"), a Japanese corporation, having a principal place of business at 4106-73 Oaza Miyota, Miyota-machi, Kitasaku-gun, Nagano 389-0293 Japan, is desirous of acquiring the entire right, title and interest in and to said Application and the invention described therein, and each and every patent that can be issued on said invention in the United States of America and in its territories and possessions, and in all countries foreign to the United States of America;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents do hereby sell, assign and transfer, unto the Assignee his full and exclusive right, title and interest in and to the aforesaid application, all inventions or discoveries disclosed or claimed therein, any continuation, continuation-in-part, division, renewal, extension, substitute, reexamination, or reissue applications thereof, all treaty and convention rights and all rights of priority arising from the aforesaid applications, all applications claiming priority therefrom, and each and every patent that may be issued on the aforesaid inventions and applications in the United States of America, and in its territories and possessions and also in all countries foreign to the United States of America, the same to be held and enjoyed



by the Assignee for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives to the end of the term or terms for which a patent or patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent on the aforesaid invention or resulting from the aforesaid application directly to the Assignee.

Assignor hereby authorizes the Assignee and its successors to apply for a patent or patents directly in its own name upon the aforesaid invention wherever the same is permitted by law, and also assign, sell, transfer and set over unto the Assignee and its successors all priority rights under the aforesaid application.

Assignor further covenants to execute all additional instruments and to do all things necessary to carry out the purpose of this instrument, at the expense of the Assignee and its successors.

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

Date: 28.08.03

M. Wildpreth  
Mathias Wildpreth

57517-46

ASSIGNMENT

WHEREAS, Olaf Winterhalter, a citizen of Germany, having a mailing address at Kirchstrasse 23, D-78736 Epfendorf, Germany (hereinafter "the Assignor"), has invented certain new and useful improvements in **HYDRODYNAMIC THRUST BEARING** and

WHEREAS, Minebea Co., Ltd. (hereinafter "the Assignee"), a Japanese corporation, having a principal place of business at 4106-73 Oaza Miyota, Miyota-machi, Kitasaku-gun, Nagano 389-0293 Japan, is desirous of acquiring the entire right, title and interest in and to said Application and the invention described therein, and each and every patent that can be issued on said invention in the United States of America and in its territories and possessions, and in all countries foreign to the United States of America;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents do hereby sell, assign and transfer, unto the Assignee his full and exclusive right, title and interest in and to the aforesaid application, all inventions or discoveries disclosed or claimed therein, any continuation, continuation-in-part, division, renewal, extension, substitute, reexamination, or reissue applications thereof, all treaty and convention rights and all rights of priority arising from the aforesaid applications, all applications claiming priority therefrom, and each and every patent that may be issued on the aforesaid inventions and applications in the United States of America, and in its territories and possessions and also in all countries foreign to the United States of America, the same to be held and enjoyed

by the Assignee for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives to the end of the term or terms for which a patent or patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent on the aforesaid invention or resulting from the aforesaid application directly to the Assignee.

Assignor hereby authorizes the Assignee and its successors to apply for a patent or patents directly in its own name upon the aforesaid invention wherever the same is permitted by law, and also assign, sell, transfer and set over unto the Assignee and its successors all priority rights under the aforesaid application.

Assignor further covenants to execute all additional instruments and to do all things necessary to carry out the purpose of this instrument, at the expense of the Assignee and its successors.

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

Date: 4.9.2003

  
Olaf Winterhalter

57517-46

ASSIGNMENT

WHEREAS, Helmut Hueneke, a citizen of Germany, having a mailing address at Richard-Wagnerstr. 41, D-78554 Aldingen, Germany (hereinafter "the Assignor"), has invented certain new and useful improvements in **HYDRODYNAMIC THRUST BEARING** and

WHEREAS, Minebea Co., Ltd. (hereinafter "the Assignee"), a Japanese corporation, having a principal place of business at 4106-73 Oaza Miyota, Miyota-machi, Kitasaku-gun, Nagano 389-0293 Japan, is desirous of acquiring the entire right, title and interest in and to said Application and the invention described therein, and each and every patent that can be issued on said invention in the United States of America and in its territories and possessions, and in all countries foreign to the United States of America;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents do hereby sell, assign and transfer, unto the Assignee his full and exclusive right, title and interest in and to the aforesaid application, all inventions or discoveries disclosed or claimed therein, any continuation, continuation-in-part, division, renewal, extension, substitute, reexamination, or reissue applications thereof, all treaty and convention rights and all rights of priority arising from the aforesaid applications, all applications claiming priority therefrom, and each and every patent that may be issued on the aforesaid inventions and applications in the United States of America, and in its territories and possessions and also in all countries foreign to the United States of America, the same to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors, assigns

or other legal representatives to the end of the term or terms for which a patent or patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent on the aforesaid invention or resulting from the aforesaid application directly to the Assignee.

Assignor hereby authorizes the Assignee and its successors to apply for a patent or patents directly in its own name upon the aforesaid invention wherever the same is permitted by law, and also assign, sell, transfer and set over unto the Assignee and its successors all priority rights under the aforesaid application.

Assignor further covenants to execute all additional instruments and to do all things necessary to carry out the purpose of this instrument, at the expense of the Assignee and its successors.

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

Date: 6. 9. 2003



Helmut Hueneke

57517-46

ASSIGNMENT

WHEREAS, Juergen Oelsch, a citizen of Germany, having a mailing address at Saaleblick 23, D-97618 Hohenroth, Germany (hereinafter "the Assignor"), has invented certain new and useful improvements in **HYDRODYNAMIC THRUST BEARING** and

WHEREAS, Minebea Co., Ltd. (hereinafter "the Assignee"), a Japanese corporation, having a principal place of business at 4106-73 Oaza Miyota, Miyota-machi, Kitasaku-gun, Nagano 389-0293 Japan, is desirous of acquiring the entire right, title and interest in and to said Application and the invention described therein, and each and every patent that can be issued on said invention in the United States of America and in its territories and possessions, and in all countries foreign to the United States of America;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents do hereby sell, assign and transfer, unto the Assignee his full and exclusive right, title and interest in and to the aforesaid application, all inventions or discoveries disclosed or claimed therein, any continuation, continuation-in-part, division, renewal, extension, substitute, reexamination, or reissue applications thereof, all treaty and convention rights and all rights of priority arising from the aforesaid applications, all applications claiming priority therefrom, and each and every patent that may be issued on the aforesaid inventions and applications in the United States of America, and in its territories and possessions and also in all countries foreign to the United States of America, the same to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors, assigns

or other legal representatives to the end of the term or terms for which a patent or patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.

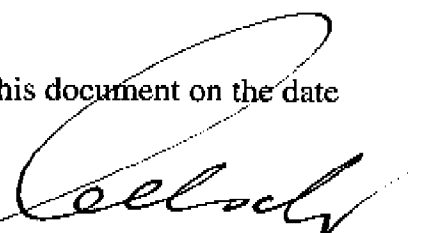
Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent on the aforesaid invention or resulting from the aforesaid application directly to the Assignee.

Assignor hereby authorizes the Assignee and its successors to apply for a patent or patents directly in its own name upon the aforesaid invention wherever the same is permitted by law, and also assign, sell, transfer and set over unto the Assignee and its successors all priority rights under the aforesaid application.

Assignor further covenants to execute all additional instruments and to do all things necessary to carry out the purpose of this instrument, at the expense of the Assignee and its successors.

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

Date: 1.AUG.2003

  
\_\_\_\_\_  
Juergen Oelsch