PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Richard E. Hartsfield Jr.	01/02/2003

RECEIVING PARTY DATA

Name:	Emerson Electric Co.
Street Address:	8000 West Florissant Avenue
City:	St. Louis
State/Country:	MISSOURI
Postal Code:	63136

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10872751

CORRESPONDENCE DATA

Fax Number: (314)726-7501

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 314-726-7500

Email: mthomas@hdp.com

Correspondent Name: Michael J. Thomas

Address Line 1: 7700 Bonhomme Avenue

Address Line 2: Suite 400

Address Line 4: St. Louis, MISSOURI 63105

NAME OF SUBMITTER: Michael J. Thomas

Total Attachments: 2

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CH \$40.00

PATENT REEL: 015696 FRAME: 0489

ASSIGNMENT

WHEREAS, I, Richard E. Hartsfield, Jr., have invented certain new and useful improvements for Controlling Electric Motor Cogging (hereinafter referred to as "Invention") and have executed an application for Letters Patent in the United States of America concurrently herewith; and

WHEREAS, I desire to assign all right, title and interest in said Invention, said application disclosing the Invention and any Letters Patent which may be granted therefor to Emerson Electric Co., a corporation of the State of Missouri, having its office and place of business at 8000 West Florissant, St. Louis, Missouri 63136 (hereinafter referred to as "Assignee"); and

WHEREAS, Assignee, is desirous of acquiring the entire right, title and interest in and to said Invention and improvements as disclosed in said application, in and to said application, and in and to any Letters Patent which may be granted therefor.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and adequacy of all of which are hereby acknowledged. Richard Hartsfield have sold, assigned and transferred, and do hereby sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest in and to said Invention and improvements as the same are disclosed in said application, in and to said application, and in and to any Letters Patent, including any divisions, continuations, continuations-in-part, reissues, reexaminations, and extensions to be obtained thereof, in the United States, and countries foreign thereto, which may be granted for said Invention; and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto; and we further agree to cooperate with the Assignee hereunder in the obtaining and sustaining of any and all such Letters Patent as the Assignee may desire to apply for, but at the expense of said Assignee.

We hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Letters Patent to said Assignee, as Assignee of the whole right, title and interest thereto; and we further agree to execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-

PATENT REEL: 015696 FRAME: 0490 in-part of said application for patent, and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for the aforesaid Invention, as the Assignee, or its designees may require and prepare at its own expense; and execute all necessary and lawful future documents including assignments in favor of Assignee, or its designees, as Assignee or its designees may present to us in order to perfect title in said Invention, modifications, and improvements in said Invention, applications and Letters Patent of the United States and countries foreign thereto.

Richard E. Hartsfield, Jr.

STATE OF MISSOURI

COUNTY OF ST. LOUIS

On this _2nd_ day of _JANUARY, 2003 before me, a Notary Public, within and for the County of St. Charles, State of Missouri personally appeared Richard E. Hartsfield, Jr., to me known to be the person described in and who acknowledged executing the forgoing instrument as a free act and deed, and who also represented that he/she is authorized to execute the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal the date and year last above written.

Notary Public

My Commission Expires:_

DONNA D. HOPSON

Notary Public - Notary Scal STATE OF MISSOURI St. Charles County

My Commission Expires: June 27, 2004