

04-08-2003



102411975

EET

Attorney's Docket No. 030673-149

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Yoshinori Ito and Kazuhiro Hane 4.3.03

Additional name(s) of conveying party(ies) attached? Yes No

2. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name

Other: _____

Execution Date: 02/01/03 and 02/03/03

2. Name and address of receiving party(ies):
Name: Harmonic Drive Systems Inc.
Address: 25-3, Minamioi 6-chome
Shinagawa-ku, Tokyo, 140-0013
JAPAN

Additional name(s) & address(es) attached? Yes No

3. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
10/345,381

Additional numbers attached? Yes No

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: William C. Rowland
Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.
P.O. Box 1404
Alexandria, Virginia 22313-1404

6. Total number of applications and patents involved: One (1)

7. Total fee (37 CFR § 3.41): \$ 40.00
 Enclosed
 Authorized to be charged to deposit account, if necessary

8. Deposit account number:
02-4800

DO NOT USE THIS SPACE

9. 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.

William C. Rowland, R.N. 30,888 William C Rowland 4-3-03
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

04/07/2003 DBYRNE 00000143 10345381
01 FC:8021 40.00 OP

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by YOSHINORI ITO, and KAZUHIRO HANE, residing at NAGANO-KEN, JAPAN and MIYAGI-KEN, JAPAN (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in PROJECTION ENCODER set forth in an application for Letters Patent of the United States,

- (1) which is a provisional application
- (a) bearing Application No. __, and filed on __;
- (b) to be filed herewith; or
- (2) which is a non-provisional application
- (a) bearing Application No. KY045381, and filed on JANUARY 16, 2003;
- (b) having an oath or declaration executed on even date herewith prior to filing of application;
- (c) having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, HARMONIC DRIVE SYSTEMS INC., a corporation duly organized under and pursuant to the laws of JAPAN and having its principal place of business at 25-3, MINAMIOI 6-CHOME, SHINAGAWA-KU, TOKYO, 140-0013 JAPAN and KAZUHIRO HANE, of MIYAGI-KEN, JAPAN (hereinafter referred to as "the Assignees"), are desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

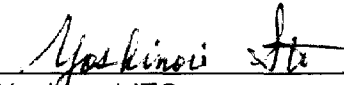
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignees, their successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignees, for their own use and behalf and the use and behalf of their successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

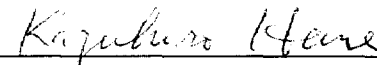
AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignees, their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignees, their successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignees, or the counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignees, their successors, legal representatives, and assigns, but at the cost and expense of the Assignees, their successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of BURNS, DOANE, SWECKER & MATHIS, L.L.P. of Alexandria, Virginia to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignees as the Assignees of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignees, their successors, legal representatives, and assigns.

Date 1. Feb. 2003 Signature of Assignor 
Yoshinori ITO

Date 3. Feb. 2003 Signature of Assignor 
Kazuhiro HANE