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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): Hitachi, Ltd. Additional name(s) of conveying party(ies) attached? [ ] Yes [x] No

2. Name and address of receiving party(ies) Name: Hitachi Industrial Equipment Systems Co., Ltd. Internal Address:

3. Nature of conveyance: [x] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other

Street Address: 6, Nakase 2-chome, Mihama-ku Chiba-shi, Chiba, Japan

Execution Date: 02/06/03 2/10/03

City: State: Zip: Additional name(s) & address(es) attached? [ ] Yes [x] No

4. 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) B. Patent No.(s) 4,556,777/ 4,587,398/4,772,776/5,170,034

Additional numbers attached? [ ] Yes [x] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Gene W. Stockman Internal Address: Mattingly, Stanger & Malur Street Address: 1800 Diagonal Rd., Suite 370 City: Alexandria State: VA Zip: 22314

6. Total number of applications and patents involved: 4 7. Total fee (37 CFR 3.41) \$ 160.00 [x] Enclosed [ ] Authorized to be charged to deposit account

8. Deposit account number: 50-1417

DO NOT USE THIS SPACE

9. Signature. Gene W. Stockman Name of Person Signing Signature February 10, 2003 Date

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

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

282,000,000  
282,000,000

**ASSIGNMENT**

WHEREAS, HITACHI, LTD., a corporation duly organized under the laws of Japan, having an office and place of business at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, is one of the owners of the entire right, title and interest in the inventions described and claimed in United States Patents Nos.

	U.S. Patent No.	Date of Patent
1	4,556,777	December 3, 1985
2	4,587,398	May 6, 1986
3	4,772,776	September 20, 1988
4	5,170,034	December 8, 1992

and any reissues or reexaminations thereof, by virtue of deeds of assignment recorded

	On	at Reel	Frame
1	December 23, 1983	4212	774
2	February 19, 1985	4510	957
3	April 18, 1988	4852	290
4	December 20, 1991	5947	994

in the U.S. Patent and Trademark Office;

WHEREAS, HITACHI, LTD., (hereinafter ASSIGNOR) wishes to assign and transfer its entire undivided joint interest in said inventions and said United States Patents Nos. 4556777, 4587398, 4772776, 5170034 to Hitachi Industrial Equipment Systems Co., Ltd. (hereinafter ASSIGNEE), a corporation duly organized under the laws of Japan, having an office and place of business at 6, Nakase 2-chome, Mihama-ku, Chiba-shi, Chiba, Japan, and said ASSIGNEE wishes to acquire ASSIGNOR's entire undivided joint interest in said inventions and United States Patents Nos. 4556777, 4587398, 4772776, 5170034;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$ 1.00), and other good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE its entire undivided joint interest in said inventions and said United States Patents Nos. 4556777, 4587398, 4772776, 5170034 and any reissues or reexaminations thereof.

In testimony whereof, HITACHI, LTD. has caused this assignment to be signed by its duly authorized officer this 6 day of February, 2003.

HITACHI, LTD.

By: Yasuo Sakuta.

Name: Yasuo SAKUTA, Patent Attorney

Title: Executive Managing Director, Intellectual Property Group  
(Authorized Signing Officer)