

08-18-2000

Atty. Docket No.: 0965-0312P

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

1. Name of conveying party(ies):
**MASUMOTO, Masanori; ABIRU, Hisanori;
ICHIKIZAKI, Testsuo; CHIKURA, Takashi;
HIRANO, Tatsuya; MASUMOTO, Shinichi;
YASUNAGA, Ikko; OKADA, Takashi**
Additional name(s) of conveying party(ies) attached?
 Yes No

2. Name and address of receiving party(ies)
Name: **MITSUBISHI HEAVY INDUSTRIES, LTD.**
Internal Address:
Street Address: **5-1, Marunouchi 2-chome, Chiyoda-ku**
City: **Tokyo** State: ZIP:
Country: **Japan** Postal Code:
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other:
Execution Date: **July 11, 2000**

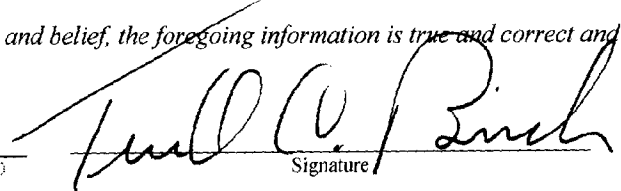
4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: **July 11, 2000**
A. Patent Application No(s). **NEW**
B. Patent No.(s).
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **BIRCH, STEWART, KOLASCH & BIRCH, LLP**
Street Address: **P.O. BOX 747**
City: **FALLS CHURCH** State: **VA** ZIP: **22040-0747**
Country: **USA**

6. Total No. of applications/patents involved: **One (1)**
7. Total fee (37 C.F.R. § 3.41): **\$40.00 E**
 Enclosed
 Authorized to be charged to deposit account, **if no fee attached.**
8. Deposit account number: **02-2448**

(Attach triplicate copy of this page if paying by deposit account)

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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.

Name of Person Signing/Reg. No.: **Ferrell C. Birch, #19,382** Signature: **Ferrell C. Birch** Date: **August 2, 2000**

Total number of pages including cover sheet, attachments, and document: **Three (3)**

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

TCB/dpt
(Rev. 01/08/2000)

PATENT
REEL: 010998 FRAME: 0301

ASSIGNMENT

Application No. NEW

Filed August 2, 2000

Insert Name(s) of Inventor(s) ➡ WHEREAS, Masanori MASUMOTO, Hisanori ABIRU
Tetsuo ICHIKIZAKI, Takashi CHIKURA
Tatsuya HIRANO, Shinichi MASUMOTO
Ikko YASUNAGA, Takashi OKADA

Insert Title of Invention ➡ (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in _____
Crane Apparatus

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).

Insert Date of Signing of Application ➡ on July 11, 2000; and

Insert Name of Assignee ➡ WHEREAS, MITSUBISHI HEAVY INDUSTRIES, LTD.

Insert Address of Assignee ➡ of 5-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan

CHECK BOX IF APPROPRIATE ➡ its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date July 11, 2000 , Name of Inventor Masanori Masumoto
(signature) Masanori MASUMOTO

Date July 11, 2000 , Name of Inventor Hisanori Abiru
(signature) Hisanori ABIRU

Date July 11, 2000 , Name of Inventor Tetsuo Ichikizaki
(signature) Tetsuo ICHIKIZAKI

Date July 11, 2000 , Name of Inventor Takashi Chikura
(signature) Takashi CHIKURA

Date July 11, 2000 , Name of Inventor Tatsuya Hirano
(signature) Tatsuya HIRANO

Date July 11, 2000 , Name of Inventor Shinichi Masumoto
(signature) Shinichi MASUMOTO

Date July 11, 2000 , Name of Inventor Ikko Yasunaga
(signature) Ikko YASUNAGA

Date July 11, 2000 , Name of Invenotr Takashi Okada
(signature) Takashi OKADA