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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of conveying party(ies):

Rush D. Robinett, III,
Kenneth N. Groom
John T. Feddema
Gordon G. Parker



2. Name and address of receiving party(ies)

SANDIA CORPORATION
Patent & Licensing, 11500
Mail Stop 0161
P. O. Box 5800
Albuquerque, State: NM ZIP:87185-0161

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

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

3. Nature of conveyance:

Assignment Merger
Security Agreement Change of Name
Other: Assignment & Confirmatory License _____
Execution Dates: 6/23/99 and 7/9/99

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)

09/339,787

B. Patent No.(s)

Filed: 6/24/99

Issued:

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Timothy D. Stanley
Sandia National Laboratories
Internal Address: Patent & Licensing, 11500

Mail Stop 0161

Street Address: P. O. Box 5800

City: Albuquerque State: NM ZIP: 87185-0161

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

8. Deposit Account number: 19-0131

(Attach duplicate copy of this page if paying by 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.

Timothy D. Stanley

Signature

Date

7/15/99

Total number of pages including cover sheet, attachments, and document: 4

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

PATENT
REEL: 010122 FRAME: 0488

June 23, 1999

ASSIGNMENT

WHEREAS, **Rush D. Robinett, III, Kenneth N. Groom, John T. Feddema**, of Albuquerque, New Mexico, and **Gordon G. Parker, of Houghton, Michigan**, have made an invention relating to **PENDULATION CONTROL SYSTEM AND METHOD FOR ROTARY BOOM CRANES** in the course of the work authorized by Contract DE-AC04-94AL85000 between SANDIA CORPORATION and the UNITED STATES DEPARTMENT OF ENERGY, said invention being disclosed and claimed in an application for United States patent, identified as DOE Docket No: **S-91931**, duly executed by **Rush D. Robinett, III, Kenneth N. Groom, John T. Feddema**, on **June 23, 1999, in Albuquerque, New Mexico**, and **Gordon G. Parker, on July 9, 1999, in Ann Arbor, Michigan**.

WHEREAS Inventor(s), in consideration of employment by Sandia Corporation, has(have) agreed, among other things, to assign to Sandia Corporation, its successors and assigns, all rights to inventions, discoveries, or improvements made or conceived in the course of their employment; and

WHEREAS, the Government of the United States, as represented by the U.S. Department of Energy has granted a waiver of Government rights in the above-identified invention to Sandia Corporation under Class Waiver W(C)93-012, effective October 1, 1993, and

THEREFORE, Inventor(s) hereby sells, assigns, and transfers unto Sandia Corporation their entire right, title, and interest in and to said invention and in and to all resulting patents, wherever they may be granted, as well as reissues or extensions of said patents.

Inventor(s) covenants with Sandia Corporation that, except for the rights, if any, of the Government, his/her interest in the rights and property herein conveyed is free and clear of any encumbrance and that they have full right to convey the same as herein expressed. They agree, at the request of Sandia corporation, to make, execute, and deliver to Sandia Corporation, the Government, or other party prosecuting patent applications on this invention, any and all papers, documents, affidavits, applications, statements or other instruments relating to said invention, take all rightful oaths and do all acts as may reasonably be required of them in or incident to the prosecution of any or all applications on said invention or in the adjustment or settlement of any interferences or other actions or proceedings that said applications or patents thereon may encounter or in which they may become involved.

Signed at Albuquerque, New Mexico.

Rush D. Robinett, III
Rush D. Robinett, III

Date: 6/23/99

Kenneth N. Groom
Kenneth N. Groom

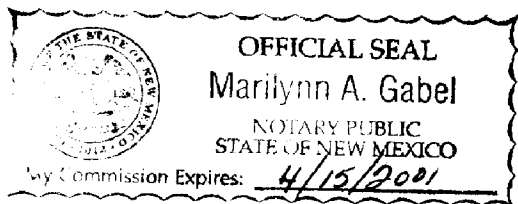
Date: 6/23/99

John T. Feddema
John T. Feddema

Date: 6/23/99

STATE OF NEW MEXICO)
) ss:
COUNTY OF BERNALILLO)

On the the dates listed above, personally appeared before me, Marilynn A. Gabel, Notary Public, **Rush D. Robinett, III, Kenneth N. Groom, John T. Feddema**, to me known to be the individuals described in and who executed the foregoing instrument, and who acknowledged to me that they executed the same.



Marilynn A. Gabel
Notary Public

Approved and consented to this 15 day of July, 1999.

SANDIA CORPORATION

Timothy D. Stanley
Timothy D. Stanley
Chief Patent Counsel
Patent and Licensing Office, MS 0161

Signed at Ann Arbor, Michigan:

Gordon G. Parker
Gordon G. Parker

Date: 7-9-99

STATE OF MICHIGAN)
COUNTY OF Washtenaw) ss:

On the the dates listed above, personally appeared before me, Jason Scott,
Notary Public, **Gordon G. Parker**, to me known to be the individual described in and who
executed the foregoing instrument, and who acknowledged to me that he executed the same.

Jason D. Scott
Notary Public

JASON D. SCOTT
Notary Public, Washtenaw County, MI
My Commission Expires January 10, 2003

Approved and consented to this 15 day of July, 1999.

SANDIA CORPORATION

Timothy D. Stanley
Timothy D. Stanley
Chief Patent Counsel
Patent and Licensing Office, MS 0161