

08-07-1998



100785922

PATENT APPLICATION

MM-E

Commissioner of Patents  
and Trademarks  
Washington, DC 20231

SEP 07 1998

Sir:

Please record the attached original document or copy thereof.

- (1) Conveying party(ies) : Christian A. Clausen Date Executed: 7/16/98  
Debra R. Reinhart Date Executed: 7/17/98  
Manoj B. Chopra Date Executed: 7/31/98
- (2) Receiving party : U.S. GOVERNMENT AS REPRESENTED BY THE  
ADMINISTRATOR OF NATIONAL AERONAUTICS  
AND SPACE ADMINISTRATION, WASHINGTON, DC  
20546
- (3) Nature of conveyance : ASSIGNMENT TO THE U.S. GOVERNMENT
- (4) Application No. : KSC-11957  
Serial No. : 09/127860 Filed: 07/13/98
- (5) Return recorded document to : BETH A. VRIONI  
NASA/JOHN F. KENNEDY SPACE CENTER  
MAIL CODE: MM-E  
KENNEDY SPACE CENTER, FL 32899
- (6) Total number of applications involved: ONE
- (7) Date Document was Executed: See (1) above
- (8) Total fee (37 CFR 3.41): \$40.00
- (9) Charge to: DEPOSIT ACCOUNT NO. 14-0116
- (10) 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.

Total number of pages including cover sheet: EIGHT

Respectfully submitted,

Beth A. Vrioni, Registration No. 39,869

Enclosure(s)

1. Original Assignment and one copy
2. Additional copy of this letter

PATENT  
REEL: 9361 FRAME: 0193

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

## ASSIGNMENT

WHEREAS, the University of Central Florida (UCF)  
(The CONTRACTOR/GRANTEE) a    corporation,   X   unincorporated (check one) and  
existing under the laws of the State of Florida, and having its principal place of  
business (or campus in the case of a college or university) at College of  
Engineering and Chemistry, 4000 Central Florida Blvd.,  
Orlando, Florida 32816  
(address, city, state, zip)

The said CONTRACTOR/GRANTEE having elected NOT to retain the title under the  
provisions of 35 U.S.C. §202 to a Subject Invention made in the performance of work  
under a contract/grant between the CONTRACTOR/GRANTEE and the Government of the United  
States of America (the Government), the Subject Invention being identified as:

TITLE: Reactive Material Placement Technique for Ground Water Treatment

## INVENTORS:

(1)	<u>Christian A. Clausen</u>	Employer	<u>UCF</u>
(2)	<u>Debra R. Reinhart</u>	Employer	<u>UCF</u>
(3)	<u>Manoj B. Chopra</u>	Employer	<u>UCF</u>
(4)	<u>Jacqueline W. Quinn</u>	Employer	<u>NASA</u>
(5)	<u>                                </u>	Employer	<u>                                </u>

This assignment is applicable to INVENTORS, (check appropriate)

  X   (1),   X   (2),   X   (3),        (4),        (5);

The said CONTRACTOR/GRANTEE being a        small business,   X   college, or  
university,        other nonprofit organization;

CONTRACTOR/GRANTEE NO. NAG10-0198 PROJECT                                 

CONTRACTOR/GRANTEE CASE NO.                                 

NASA CASE NO. KSC-11957 APPLICATION EXECUTED                                 

The undersigned inventor(s) in recognition of an obligation as employee(s) of the  
CONTRACTOR/GRANTEE to assign this invention to the CONTRACTOR/GRANTEE, and pursuant to  
the OBLIGATIONS OF THE CONTRACTOR/GRANTEE to the Government under the above  
CONTRACT/GRANT, hereby assign(s) to the Government of the United States of America as  
represented by the Administrator of the National Aeronautics and Space Administration  
(NASA), the full and exclusive right in and to the said Subject Invention within the  
United States of America, its territories and possessions, and the entire right,  
title, and interest in and to said patent application, and any applications continuing  
therefrom and such Letters Patent as may issue therefrom.

The inventor(s) hereby covenant(s) that he/she (they) has (have) the right to grant the foregoing assignment and further agree(s) to the provisions stated below which are applicable to the inventor(s).

Further, the inventor(s) hereby assign(s) to the Government, the foreign rights in and to the said invention including rights of priority under the International Convention of Paris (1883), as amended.

July 16, 1998	(1)	Christian R. Clausen
Date		(Inventor)
7/17/95	(2)	John R. Reinhold
Date		(Inventor)
7/31/98	(3)	[Signature]
Date		(Inventor)
	(4)	
Date		(Inventor)
	(5)	
Date		(Inventor)

The inventor(s) and the CONTRACTOR/GRANTEE further agree to make, execute, and/or deliver to the Government, upon request, but at the expense of the Government, any and all data, drawings, notes, reports, information, papers, documents, affidavits, statements or other items necessary in the prosecution of said application and of any applications continuing therefrom or applications for reissue or reexamination of said Letters Patent, or of any foreign patent or patent application, or any application continuing therefrom, and to assist the Government in every way in protecting said invention as may be requested, provided that any expense arising through such assistance will be paid by the Government.

The CONTRACTOR/GRANTEE, having elected not to retain title under the provisions of 35 U.S.C. §202 to the Subject Invention made in the performance of work under the agreement between the CONTRACTOR/GRANTEE and NASA, hereby joins in and agrees to the foregoing assignment.

Further, the CONTRACTOR/GRANTEE except for the reservation of a license as described below, relinquishes and likewise assigns all right, title, and interest in and to such invention and patent application to the Government of the United States of America as represented by the Administrator of NASA.

The CONTRACTOR/GRANTEE hereby covenants that it has the right to make the foregoing assignment.


#### LICENSE TO THE CONTRACTOR/GRANTEE

(1) The CONTRACTOR/GRANTEE shall retain a nonexclusive, royalty-free license throughout the world in the Subject Invention to which the Government obtains title. The CONTRACTOR/GRANTEE's license extends to its domestic subsidiaries and affiliates, if any, within the corporate structure of which the CONTRACTOR/GRANTEE is a part and includes the right to grant sublicenses of the same scope to the extent the CONTRACTOR/GRANTEE was legally obligated to do so at the time the contract/grant was awarded. The license is transferable only with the approval of the National Aeronautics and Space Administration except when transferred to the successor of that part of the CONTRACTOR/GRANTEE's business to which the inventor pertains.

(2) The CONTRACTOR/GRANTEE's domestic license may be revoked or modified by the National Aeronautics and Space Administration to the extent necessary to achieve the expeditious practical application of the Subject Invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions in the Federal Property Management Regulations and the NASA Licensing Regulations. This license shall not be revoked in that field of use or the geographical areas in which the CONTRACTOR/GRANTEE has achieved practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of the National Aeronautics and Space Administration to the extent the CONTRACTOR/GRANTEE, its licensees, or its domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country.

(3) Before revocation or modification of the license, the National Aeronautics and Space Administration will furnish the CONTRACTOR/GRANTEE a written notice of its intention to revoke or modify the license, and the CONTRACTOR/GRANTEE shall be allowed thirty days (or such other time as may be authorized by the National Aeronautics and Space Administration for good cause shown by the CONTRACTOR/GRANTEE) after the notice to show cause why the license should not be revoked or modified. The CONTRACTOR/GRANTEE has the right to appeal, in accordance with applicable NASA Licensing Regulations and the Federal Property Management Regulations concerning the licensing of Government-owned inventions, any decision concerning the revocation or modification of its license.

Signed this 31<sup>st</sup> day of July, 1998.

SIGNED:  TITLE: Vice President for Research and Graduate Studies  
(Typed or Printed)

NAME: Dr. M.J. Soileau University of Central Florida  
Contractor or Grantee  
(Typed or Printed)

National Aeronautics and  
Space Administration  
Washington, D.C.  
20546

Code: GP  
Official Business  
Penalty for Private Use \$300



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POSTAGE WILL BE PAID BY NASA

Beth A. Vrioni  
NASA Kennedy Space Center  
Mail Code: MN-E  
KSC, FL 32899



NASA CASE NO. :KSC-11957  
FILING DATE :07/13/98  
APPLICATION SERIAL NO. :09/127860  
APPLICANT :Jacqueline W. Quinn, et al.  
TITLE :Reactive Material Placement for Groundwater  
Treatment  
RECEIPT OF THE FOLLOWING PAPERS IS EVIDENCED HEREON BY THE OFFICIAL STAMP OF UNITED STATES PATENT AND  
TRADE MARK OFFICE

NASA ASSIGNMENT (1 original and 1 copy, six pages total)  
1 cover letter (1 original and 1 copy, 2 pages total)

CHARGE TO DEPOSIT ACCOUNT NO. 14-0116 \$40.00

NASA FORM 432 JUL 96 PREVIOUS EDITIONS ARE OBSOLETE.

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RECORDED: 08/07/1998

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REEL: 9361 FRAME: 0197