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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):
Adrian Swinburn ALLEN, John Oliver STOCKWELL and Ian James BLACK

Additional name(s) of conveying party(ies) attached?
 yes no

2. Name and address of receiving party(ies)?

Name:
ALLIED COLLOIDS LIMITED
Internal Address:
P.O. Box 38, Low Moor, Bradford, West Yorkshire, BD12 0JZ, England
Street Address:
Same as above

City State Zip

Additional name(s) & address(es) attached?
 yes no

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: August 19, September 15 & 14, 1998, respectively

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)

09/142,220

B. Patent No(s).

Additional numbers attached? Yes No

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

SUGHRUE, MION, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3202

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

7. Total Fee (37 CFR 3.41): \$ 40.00
 Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.

Authorized to be charged to Deposit Account

8. Deposit Account No.

(Attach dupl. 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.

Waddell A. Biggart
Name Waddell A. Biggart Reg. No. 24,861

October 6, 1998

Date

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS AND DOCUMENT: 3

OMB No. 0651-0011 (exp. 4/94)

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

Assignment

USA P431

Name(s) of Inventors

- (1) Adrian Swinburn ALLEN
- (2) John Oliver STOCKWELL
- (3) Ian James BLACK

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree(s) to assign, and hereby do(es) assign, transfer and set over to

Name of Assignee ALLIED COLLOIDS LIMITED
 Address of Assignee P.O. Box 38, Low Moor, Bradford, West Yorkshire
BD12 0JZ, England.

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

Title ACTIVATION OF SWELLING CLAYS AND PROCESSES OF USING THE ACTIVATED CLAYS.

for which the undersigned has (have) executed an application for patent in the United States of America

Date of Signing of Application on August 15, and September 15 & 14, 1998
 Alternative Identification for filed applications U.S. Application Serial Number 09/142,220
filed September 3, 1998

- 1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorise(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has/she has (they have) full right to convey the entire interest herein assigned, and that he has/she has (they have) not executed, and will not execute, any agreements in conflict herewith.
- 6) The undersigned hereby grant(s) to the attorney(s) identified in the Declaration/Power of Attorney for this patent application, the power to insert on this assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

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

Date _____ Signature of Inventor (1) _____
 Date _____ Signature of Inventor (2) _____
 Date 15/8/98 Signature of Inventor (3) [Signature]
 Date 19/8/98 Witness S. J. Sweeney
 Date 20/8/98 Witness [Signature]

Assignment

USA

P431

Name(s) of Inventors

(1) Adrian Swinburn ALLEN

(2) John Oliver STOCKWELL

(3) Ian James BLACK

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Name of Assignee ALLIED COLLOIDS LIMITED

Address of Assignee P.O. Box 38, Low Moor, Bradford, West Yorkshire BD12 0JZ, England.

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

Title ACTIVATION OF SWELLING CLAYS AND PROCESSES OF USING THE ACTIVATED CLAYS.

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

Date 15/9/98 Signature of Inventor (1) [Signature]
Date 14th Sept 1998 Signature of Inventor (2) [Signature]
Date _____ Signature of Inventor (3) _____

Date 14/09/98 Witness [Signature]
Date 15/9/98 Witness P. Pope