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07-24-1998

HEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

BP94-03ADA

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To the Honorable Commissioner of Patents

100774184

Shed original documents or copy thereof.

1. Name of conveying party(ies):

Robert A. Houtchens
Carl W. RauschAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Biopure Corporation

Internal Address: _____

Street Address: 11 Hurley Street

City: Cambridge, State: MA ZIP: 02141

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

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____

Execution Date: July 6, 1998

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 6, 1998

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

7/20/1998 TRADEMARK 00000044 09113952

Name: _____

4 FC:581

Internal Address: Hamilton, Brook, Smith

& Reynolds, P.C.

Street Address: Two Militia Drive

City: Lexington, State: MA ZIP: 02421

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed Fee is included in check
for filing fee☐ Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate 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.

N. Scott Pierce

Name of Person Signing

Signature

4

Date

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

Joint

ASSIGNMENT

WHEREAS, we, **Robert A. Houtchens and Carl W. Rausch**, have invented a certain improvement in **METHOD FOR PRODUCING A PURIFIED HEMOGLOBIN PRODUCT** described in an application for Letters Patent of the United States, the specification of which:

☒ is about to be filed in the United States Patent Office;

☐ was filed on _____ as Application No. _____;

☐ was patented under U.S. Patent No. _____ on _____.

WHEREAS, **Biopure Corporation** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **11 Hurley Street, Cambridge, Massachusetts**, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

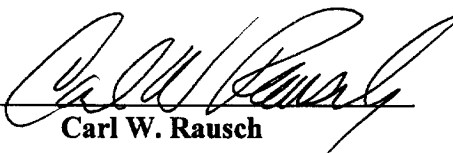
Inventor: Robert A. Houtchens
Robert A. Houtchens

State/Commonwealth
of Massachusetts
County of Middlesex

Then personally appeared before me the above-named **Robert A. Houtchens** and acknowledged that he executed the foregoing instrument as his free act and deed this 6th day of July, 1998.

(SEAL)

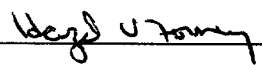
Hazel V. Farney Notary Public
Hazel V. Farney (print name)
My Commission expires 01 / 04 / 02

Inventor: 
Carl W. Rausch

State/Commonwealth
of Massachusetts
County of Middlesex

Then personally appeared before me the above-named **Carl W. Rausch** and acknowledged
that he executed the foregoing instrument as his free act and deed this 6th
day of July, 1998.

(SEAL)

 Notary Public
Hazel V. Forney (print name)
My Commission expires 01 / 01 / 02