

S.L.aa

05-12-1999



101034603

PATENT  
Atty. Docket No.1393.002  
USSN 09/044,696

I hereby certify that this paper is being deposited in the United States Postal Service as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231-0001, Attn: Box Assignments, on April 28, 1999.

Nancy L. Swanson

4/28/99  
Date

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: BARCHFELD et al.

Serial No.: 09/044,696

Group Art: 1641

Filed : March 18, 1998

Examiner: Unassigned

For : DETOXIFIED MUTANTS OF BACTERIAL ADP-RIBOSYLATING TOXINS  
AS PARENTERAL ADJUVANTS

**ASSIGNMENT DOCUMENT COVER LETTER**

Box Assignment  
Assistant Commissioner for Patents  
Washington, D.C. 20231

1. The accompanying assignment covers the patent or application identified above.

No other patents or applications are covered by the assignment.

Other patents and/or applications are covered by the assignment as shown on the attached LIST OF PATENTS AND/OR APPLICATIONS COVERED BY ASSIGNMENT.

05/10/1999 JSHABAZZ 00000189 09044696

01 FC:581

**NAMES OF PARTY MAKING TRANSFER**

2. Name 1: Gail Barchfeld  
Name 2: Giuseppe Del Giudice  
Name 3: Rino Rappuoli

**IDENTITY OF PARTY TO WHOM TRANSFER IS MADE**

3. Transfer is being made to:

CHIRON CORPORATION  
Intellectual Property - R440  
P.O. Box 8097  
Emeryville, California 94608-8097  
United States of America

**INTENTION OF DOCUMENT**

4. The accompanying document is an:

Assignment                       License  
 Security Interest                 Other

Execution Date: June 5, 1998 and July 6, 1998

**FEE PAYMENT**

5. Total fee due \$40.00

6.  Charge Deposit Account No. 03-1664 in the sum of \$40.00.

Enclosed is a check for \$40.00.

The Assistant Commissioner is hereby authorized to charge any additional fees which may be required or credit any overpayment to Deposit Account No. 03-1664. THIS IS NOT AN AUTHORIZATION FOR PAYMENT OF ANY ISSUE FEES.

**ADDRESS TO WHICH DOCUMENT SHOULD BE RETURNED AFTER RECORDAL  
BY PTO**

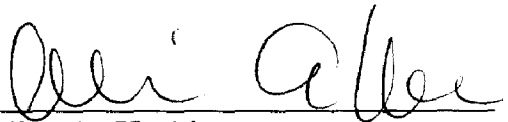
7. Please return the recorded document to:

Alisa A. Harbin  
CHIRON CORPORATION  
Intellectual Property - R440  
P.O. Box 8097  
Emeryville, California 94662-8097  
United States of America

**STATEMENT BY THE PARTY**

8. I hereby submit that, to the best of my knowledge and belief, the foregoing information contained herein is true and correct and any copy submitted herewith is a true and correct copy of the original document.

Respectfully submitted,

By:   
Alisa A. Harbin  
Attorney for Assignee  
Reg. No. 33,895

Dated: April 28, 1999

CHIRON CORPORATION  
Intellectual Property - R440  
P.O. Box 8097  
Emeryville, California 94662-8097  
TEL: (510) 923-2708  
FAX: (510) 655-3542

Total number of pages comprising cover sheet: 7 (Cover Letter plus Original Assignment)

**ASSIGNMENT**

WHEREAS, We, **GAIL BARCHFELD, GIUSEPPE DEL GIUDICE and RINO RAPPUOLI**, hereinafter referred to as **ASSIGNORS**, have co-invented certain improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **DETOXIFIED MUTANTS OF BACTERIAL ADP-RIBOSYLATING TOXINS AS PARENTERAL ADJUVANTS**

Date of Execution: June 5, 1998 and June 15, 1998

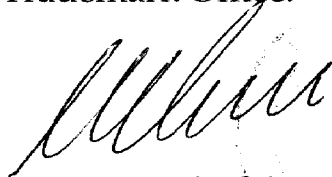
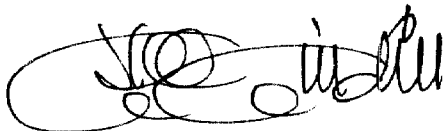
Filing Date: March 18, 1998

Serial No: 09/044,696

WHEREAS, **CHIRON CORPORATION**, located at 4560 Horton Street, Emeryville, California 94608-2916, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to **ASSIGNORS** by **ASSIGNEE**, receipt of which is hereby acknowledged, **ASSIGNORS** have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said **ASSIGNEE**, and **ASSIGNEE'S** successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. § 119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said **ASSIGNEE** as fully and exclusively as it would have been held and enjoyed by said **ASSIGNORS** had this assignment and transfer not been made, to the full end and term of any Letters Patent.

**ASSIGNORS** also agree that the U.S. serial number and the filing date may be entered above by **ASSIGNEE** or its agents upon designation of the serial number and the filing date by the U.S. Patent and Trademark Office.



ASSIGNORS further agree that they will, without charge to said ASSIGNEE, but at ASSIGNEE'S expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE'S successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed their names to this assignment on the dates indicated below.

INVENTOR: GAIL BARCHFELD

DATE June 5, 1998

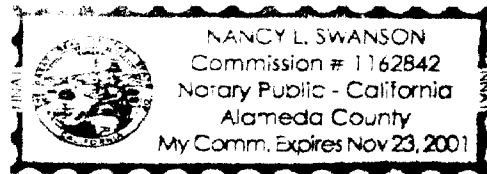
Gail Barchfeld  
Signature

State of California  
County of Alameda

On 6/5/98 before me, Nancy L. Swanson, Notary Public, personally appeared Gail Barchfeld, personally known to me OR proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Nancy L. Swanson  
Signature of Notary Public



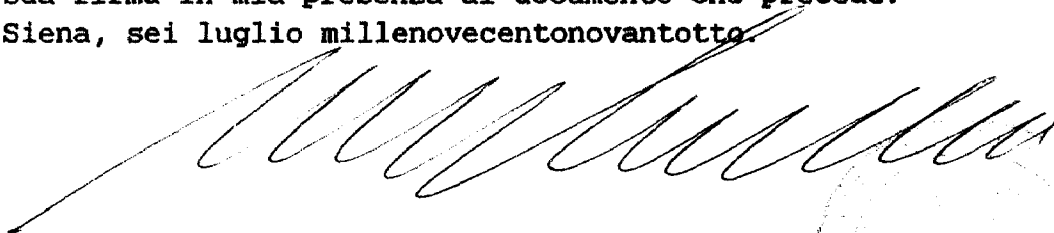
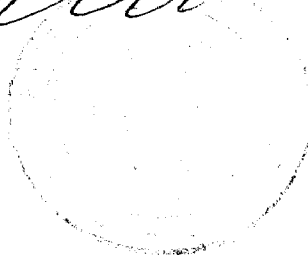
Notary Seal

INVENTOR: GIUSEPPE DEL GIUDICE

DATE 6 July 1998

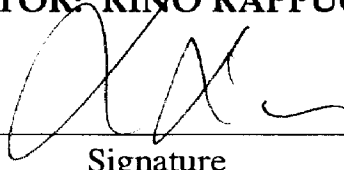
  
Signature

Attesto io sottoscritto Dottor Mario Zanchi Notaio in Siena, iscritto al Collegio Notarile dei Distretti Riuniti di Siena e Montepulciano che previa sua rinuncia con il mio consenso alla assistenza dei testimoni il Signor Dottor Giuseppe del Giudice nato ad Apricena (FG) il 16 Luglio 1956, domiciliato in Siena Via Fiorentina n. 1, dirigente di azienda, della cui identità personale io Notaio sono certo, ha apposto la sua firma in mia presenza al documento che precede.  
Siena, sei luglio millenovecentonovantotto.

INVENTOR: RINO RAPPUOLI

DATE 8 July 1998

  
Signature

Attesto io sottoscritto Dottor Proc. Mario Zanchi Notaio in Siena, iscritto al Collegio Notarile dei Distretti Riuniti di Siena e Montepulciano che previa sua rinuncia con il mio consenso alla assistenza dei testimoni il Signor Dottor Rappuoli Rino nato a Radicofani il 4 agosto 1952, direttore di azienda, della cui identità personale io Notaio sono certo, ha apposto la sua firma in mia presenza al documento che precede.

Siena, sei luglio millenovecentonovantotto.

