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

1. Name of conveying party(ies):
   Rolf W. PFIRRMANN

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

2. Name and address of receiving party(ies):
   Ed. Geistlich Söhne AG für chemische Industrie
   P.O. Box 157
   CH-6110 Wolhusen
   Switzerland

   Additional name(s) & addresses(ies) attached? [ ] Yes [X] No

3. Name of Conveyance:
   [X] Assignment  [ ] Merger
   [ ] Security Agreement  [ ] Change of Name
   [ ] Other

   Execution Date: July 12, 1999

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)
      09/315,115

   Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:
   George R. Repper
   ROTHWELL, FIGG, ERNST & KURZ, P.C.
   Columbia Square, Suite 701 East Tower
   555 13th Street, N.W.
   Washington, DC 20004

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): . . . . $ 40.00
   [X] Enclosed
   [ ] Authorized to be charged to deposit account

8. Deposit account number:

   Attach duplicate copy of this page if paying by deposit account


   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.

   ________________________________
   George R. Repper, 31,414
   Name of Person Signing

   ________________________________
   Signature

   7-20-99
   Date

Total number of pages including cover sheet, attachments and documents: 2

07/21/1999 00000277 09316115
01 FC:581 40.00 DP
WHEREAS, I, Rolf W. PFIRRMANN, a citizen of Switzerland, residing at Schärdürlstrasse 27, CH-6006 Lucerne, Switzerland am the inventor of an invention in TREATMENT OF GASTROINTESTINAL ULCERS OR GASTRITIS CAUSED BY MICROBIAL INFECTION for which I have executed an application for Letters Patent of the United States, U.S.S.N. 09/316,115 filed May 20, 1999; and

WHEREAS, Ed. Geistlich Söhne AG für chemische Industrie, incorporated under the laws of Switzerland, with a place of business at Bahnhofstrasse 40, P.O. Box 157, CH-6110 Wolhusen, Switzerland is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application;

NOW, THEREFORE, in consideration of the sum of One Dollar ($1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said Rolf W. PFIRRMANN have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Ed. Geistlich Söhne AG für chemische Industrie, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof and all rights of priority in any such country or countries based upon the filing of the said application for Letters Patent of the United States which are created by any law, treaty or international convention; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said Ed. Geistlich Söhne AG für chemische Industrie, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to said Ed. Geistlich Söhne AG für chemische Industrie, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said Ed. Geistlich Söhne, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this __________ 12th _______ day of __________ July __________, 1999.

[Signature]

Rolf W. PFIRRMANN

July 12, 1999

Witness R. Christen

[Signature]