

12-16-1999

FORM PTO-1595

1-31-92

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office



MD 12-2-99

101224707

To The Honorable Commissioner of Patents thereof.

attached original documents or copy

1. Name of conveying party(ies):
Antonello Covacci, Massimo Bugnoli, John Telford, and Rino Rappuoli

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

Name: CHIRON, S.p.A.

Street Address: Via Fiorentina, 1
S3100

City: Siena

Country: Italy

ZIP

Additional name(s) & address attached? () YES (X) NO

Additional name(s) of conveying party(ies) attached? () YES (X) NO

3. Nature of Conveyance:

(X) Assignment () Merger

() Security Agreement

() Change of Name

() Other:

Execution Date(s): September 11, 1999, September 11, 1999, September 11, 1999 and November 7, 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)

B. Patent No.(s)

08/471,491, filed 6/6/95
08/470,260, filed 6/6/95
08/466,662, filed 6/6/95
09/360,385, filed 7/26/99 and
09/360,934, filed 7/26/99

Additional numbers attached? () YES (X) NO

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

Name: Francis A. Paintin, Esq.
Internal Address: WOODCOCK WASHBURN KURTZ
MACKIEWICZ & NORRIS LLP
One Liberty Place - 46th Floor
Philadelphia, Pennsylvania 19103-7301

Street Address: WOODCOCK WASHBURN KURTZ
MACKIEWICZ & NORRIS LLP
One Liberty Place - 46th Floor
1650 Market Street
Philadelphia, Pennsylvania 19103-7301

6. Total number of applications and patents involved:
Five (5)

7. Total fee (37 CFR 3.41):.....\$200.00

(X) Enclosed

() Authorized to be charged to Deposit Account
Number 23-3050

8. Please charge any deficiency or credit any overpayment to Deposit Account Number 23-3050

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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.

Doreen Y. Trujillo/35,719
Name of Person Signing/Reg. No.

Doreen Y. Trujillo
Signature

November 30, 1999
Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:

12/16/1999 DNGUYEN 00000073 08471491

FC:581

(200.00 DP)

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

ASSIGNMENT

WHEREAS, we

Antonello Covacci, Massimo Bugnoli, John Telford, Rino Rappuoli and Giovanni Macchia,

hereinafter referred to as the assignors are the joint inventors of certain inventions or improvements for which we have made applications for Letters Patent to the United States, identified as:

Serial No. 08/471,491, filed June 6, 1995,
Serial No. 08/470,260, filed June 6, 1995,
Serial No. 08/466,662, filed June 6, 1995,
Serial No. 09/360,385, filed July 26, 1999, and
Serial No. 09/360,934, filed July 26, 1999.

WHEREAS, **CHIRON S.p.A.**, of Siena, Italy, a corporation of Italy, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said applications and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all

rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks 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 to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

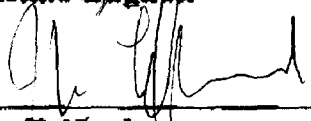
Date: 9/11/1999


Antonello Covacci

Date: 9/11/1999


Massimo Bagnoli

Date: 10/11/99


John Telford

Date: Nov. 7th 1999


Rino Rappuoli

Date: _____

Giovanni Macchia