

01-13-2000



Docket Nos. See attached

MRD 12.20.99

101243874

To the Honorable Commissioner of Patent and

original documents or copy thereof.

1. Name of conveying party:

**HOECHST AKTIENGESELLSCHAFT**

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

2. Name and address of receiving party:

**Arteva North America S.à.r.l.****Talstrasse 80****CH-8001 Zurich, Switzerland**

RECEIVED  
 1999 DEC 20 AM 10:40  
 OFFICE OF PATENT AND TRADEMARKS

3. Nature of conveyance:

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

Execution Date(s): November 1, 1999

4. Application number:

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application Nos.: see attached list

B. Patent Nos.: see attached list

Additional numbers attached? (X) Yes ( ) No

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

**Patentanwaltskanzlei Zounek****Industriepark Kalle Albert****Gebaeude H287****Rheingaustrasse 190****D-65203 Wiesbaden, Germany****Attention: Dr. Plate**6. Total number of applications and patents involved: **56**7. Total fee (37 CFR 3.41)....**\$2,240.00**

- ☐ Enclosed  
☒ Authorized to be charged to deposit account

8. Deposit account number: **031165**

(Attach duplicate copy of this page if paying by deposit account)

01/12/2000 DNGUYEN 00000243 031165 4630382

01 FC:581 2240.00 CH

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.

Gregory N. Clements

Name of Person Signing

Signature

Date

December 17, 1999

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

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

Commissioner of Patents and Trademarks

Box Assignments

Washington, D.C. 20231

PATENT

REEL: 010452 FRAME: 0678

| Docket No. | Filing Date<br>Month/Day/Year | Serial No. | Date of Patent<br>Month/Day/Year | Patent No. |
|------------|-------------------------------|------------|----------------------------------|------------|
| 1983/F260  | 12/06/1984                    | 678,981    | 12/23/1986                       | 4,630,382  |
| 1984/F081  | 04/03/1985                    | 719,349    | 12/23/1986                       | 4,631,221  |
| 1984/F081  | 04/03/1985                    | 083,023    | 02/04/1997                       | 5,599,606  |
| 1984/F202  | 08/28/1985                    | 770,623    | 11/27/1990                       | 4,973,657  |
| 1985/F054  | 03/20/1986                    | 841,842    | 07/11/1989                       | 4,847,354  |
| 1988/F021  | 02/02/1989                    | 307,516    | 09/07/1993                       | 5,242,962  |
| 1988/F021  | 06/23/1993                    | 081,607    | 03/14/1995                       | 5,397,629  |
| 1988/F132  | 05/26/1989                    | 357,527    | 10/30/1990                       | 4,966,955  |
| 1988/F133  | 05/26/1989                    | 358,180    | 08/13/1991                       | 5,039,779  |
| 1988/F285  | 10/06/1989                    | 417,904    | 03/31/1992                       | 5,100,729  |
| 1988/F285  | 12/03/1993                    | 161,980    | 11/01/1994                       | 5,359,759  |
| 1988/F295  | 10/16/1989                    | 422,091    | 01/22/1991                       | 4,987,215  |
| 1988/F296  | 10/16/1989                    | 422,153    | 01/22/1991                       | 4,987,216  |
| 1988/F297  | 10/16/1989                    | 422,116    | 01/22/1991                       | 4,987,217  |
| 1989/F064  | 02/20/1990                    | 700,341    | 11/19/1996                       | 5,575,882  |

| Docket No. | Filing Date<br>Month/Day/Year | Serial No. | Date of Patent<br>Month/Day/Year | Patent No. |
|------------|-------------------------------|------------|----------------------------------|------------|
| 1989/F157  | 05/21/1990                    | 526,174    |                                  |            |
| 1989/F157  | 05/21/1990                    | 189,427    | 03/04/1997                       | 5,607,743  |
| 1989/F242  | 07/19/1990                    | 976,344    | 09/05/1995                       | 5,447,776  |
| 1989/F242  | 07/19/1990                    | 372,917    | 11/05/1996                       | 5,571,352  |
| 1989/F244  | 07/19/1990                    | 555,082    | 10/27/1992                       | 5,158,821  |
| 1989/F347  | 10/23/1990                    | 601,504    | 03/17/1992                       | 5,097,015  |
| 1990/F047  | 02/13/1991                    | 654,874    | 07/07/1992                       | 5,128,440  |
| 1990/F050  | 12/11/1992                    | 989,113    | 08/17/1993                       | 5,236,775  |
| 1990/F078  | 03/05/1991                    | 664,948    | 06/23/1992                       | 5,124,436  |
| 1990/F106  | 04/03/1991                    | 679,922    | 09/22/1992                       | 5,149,759  |
| 1990/F138  | 04/26/1991                    | 692,215    | 03/15/1994                       | 5,293,676  |
| 1990/F138  | 08/19/1993                    | 108,227    | 06/13/1995                       | 5,424,123  |
| 1991/F015  | 01/16/1992                    | 821,992    | 08/10/1993                       | 5,235,029  |
| 1991/F019  | 01/21/1992                    | 236,671    |                                  |            |
| 1991/F051  | 02/12/1992                    | 834,584    | 03/01/1994                       | 5,290,907  |
| 1991/F112  | 04/13/1992                    | 868,037    | 05/11/1999                       | 5,902,672  |
| 1991/F132  | 04/30/1992                    | 592,604    | 02/03/1998                       | 5,714,226  |
| 1991/F134  | 04/30/1992                    | 876,862    | 11/15/1994                       | 5,364,686  |
| 1991/F208  | 06/29/1992                    | 905,893    | 11/30/1993                       | 5,266,672  |
| 1992/F003  | 01/13/1993                    | 003,798    | 11/22/1994                       | 5,366,797  |
| 1992/F020  | 01/27/1993                    | 009,650    |                                  |            |
| 1992/F152  | 05/27/1993                    | 068,055    | 08/30/1994                       | 5,342,677  |
| 1992/F178  | 06/18/1993                    | 079,987    | 12/13/1994                       | 5,372,760  |
| 1992/F210  | 07/12/1993                    | 090,787    | 07/23/1996                       | 5,538,792  |
| 1992/F211  | 07/12/1993                    | 090,326    | 02/21/1995                       | 5,390,400  |
| 1992/F221  | 07/26/1993                    | 097,121    | 12/06/1994                       | 5,370,833  |
| 1992/F270  | 08/24/1993                    | 111,210    | 09/06/1994                       | 5,344,710  |
| 1992/F270  | 08/24/1993                    | 213,033    |                                  |            |

| Docket No. | Filing Date<br>Month/Day/Year | Serial No. | Date of Patent<br>Month/Day/Year | Patent No. |
|------------|-------------------------------|------------|----------------------------------|------------|
| 1992/F284  | 09/02/1993                    | 473,219    |                                  |            |
| 1992/F284  | 09/02/1993                    | 116,139    | 05/20/1997                       | 5,631,085  |
| 1992/F315  | 10/04/1993                    | 819,303    | 04/07/1998                       | 5,735,110  |
| 1993/F257  | 08/25/1994                    | 296,105    | 02/27/1996                       | 5,494,993  |
| 1993/F308  | 10/04/1994                    | 657,008    | 12/16/1997                       | 5,698,324  |
| 1993/F396  | 11/29/1994                    | 346,405    | 05/21/1996                       | 5,518,813  |
| 1993/F431  | 12/21/1994                    | 360,614    | 08/19/1997                       | 5,658,662  |
| 1994/F008  | 01/12/1995                    | 371,752    | 06/10/1997                       | 5,637,114  |
| 1994/F011  | 01/20/1995                    | 375,642    | 01/14/1997                       | 5,593,777  |
| 1994/F085  | 04/04/1995                    | 416,148    | 07/08/1997                       | 5,646,234  |
| 1994/F087  | 04/05/1995                    | 417,305    | 11/05/1996                       | 5,571,891  |
| 1994/F249  | 08/28/1995                    | 520,662    |                                  |            |
| 1994/F754  | 07/10/1997                    | 891,187    | 09/07/1999                       | 5,948,828  |

**ASSIGNMENT OF UNITED STATES OF AMERICA PATENTS AND PATENT APPLICATIONS**

WHEREAS, **HOECHST AKTIENGESELLSCHAFT** a corporation organized and existing under the laws of the Federal Republic of Germany, having its principal place of business at Brueningstrasse 50, D-65929 Frankfurt am Main (mail address: D-65926 Frankfurt am Main), Federal Republic of Germany (hereinafter "HOECHST"), is the owner of the United States patents and patent applications identified below; and

WHEREAS, **ARTEVA NORTH AMERICA S.À.R.L.**, a corporation organized and existing under the laws of Switzerland, with registered office at Talstrasse 80, CH-8001 Zurich, Switzerland (hereinafter "ARTEVA") desires an assignment of all rights to said patents and patent applications;

NOW, THEREFORE, for valuable consideration received by HOECHST, the receipt and sufficiency of which are hereby acknowledged, HOECHST hereby assigns to ARTEVA the right, title and interest in and to said patents and patent applications

| Docket No. | Filing Date<br>Month/Day/Year | Serial No.     | Date of Patent<br>Month/Day/Year | Patent No.       |
|------------|-------------------------------|----------------|----------------------------------|------------------|
| 1983/F260  | 12/06/1984                    | <b>678,981</b> | 12/23/1986                       | <b>4,630,382</b> |
| 1984/F081  | 04/03/1985                    | <b>719,349</b> | 12/23/1986                       | <b>4,631,221</b> |
| 1984/F081  | 04/03/1985                    | <b>083,023</b> | 02/04/1997                       | <b>5,599,606</b> |
| 1984/F202  | 08/28/1985                    | <b>770,623</b> | 11/27/1990                       | <b>4,973,657</b> |
| 1985/F054  | 03/20/1986                    | <b>841,842</b> | 07/11/1989                       | <b>4,847,354</b> |
| 1988/F021  | 02/02/1989                    | <b>307,516</b> | 09/07/1993                       | <b>5,242,962</b> |
| 1988/F021  | 06/23/1993                    | <b>081,607</b> | 03/14/1995                       | <b>5,397,629</b> |
| 1988/F132  | 05/26/1989                    | <b>357,527</b> | 10/30/1990                       | <b>4,966,955</b> |
| 1988/F133  | 05/26/1989                    | <b>358,180</b> | 08/13/1991                       | <b>5,039,779</b> |
| 1988/F285  | 10/06/1989                    | <b>417,904</b> | 03/31/1992                       | <b>5,100,729</b> |
| 1988/F285  | 12/03/1993                    | <b>161,980</b> | 11/01/1994                       | <b>5,359,759</b> |
| 1988/F295  | 10/16/1989                    | <b>422,091</b> | 01/22/1991                       | <b>4,987,215</b> |
| 1988/F296  | 10/16/1989                    | <b>422,153</b> | 01/22/1991                       | <b>4,987,216</b> |
| 1988/F297  | 10/16/1989                    | <b>422,116</b> | 01/22/1991                       | <b>4,987,217</b> |
| 1989/F064  | 02/20/1990                    | <b>700,341</b> | 11/19/1996                       | <b>5,575,882</b> |

| <b>Docket No.</b> | <b>Filing Date<br/>Month/Day/Year</b> | <b>Serial No.</b> | <b>Date of Patent<br/>Month/Day/Year</b> | <b>Patent No.</b> |
|-------------------|---------------------------------------|-------------------|------------------------------------------|-------------------|
| 1989/F157         | 05/21/1990                            | <b>526,174</b>    |                                          |                   |
| 1989/F157         | 05/21/1990                            | <b>189,427</b>    | 03/04/1997                               | <b>5,607,743</b>  |
| 1989/F242         | 07/19/1990                            | <b>976,344</b>    | 09/05/1995                               | <b>5,447,776</b>  |
| 1989/F242         | 07/19/1990                            | <b>372,917</b>    | 11/05/1996                               | <b>5,571,352</b>  |
| 1989/F244         | 07/19/1990                            | <b>555,082</b>    | 10/27/1992                               | <b>5,158,821</b>  |
| 1989/F347         | 10/23/1990                            | <b>601,504</b>    | 03/17/1992                               | <b>5,097,015</b>  |
| 1990/F047         | 02/13/1991                            | <b>654,874</b>    | 07/07/1992                               | <b>5,128,440</b>  |
| 1990/F050         | 12/11/1992                            | <b>989,113</b>    | 08/17/1993                               | <b>5,236,775</b>  |
| 1990/F078         | 03/05/1991                            | <b>664,948</b>    | 06/23/1992                               | <b>5,124,436</b>  |
| 1990/F106         | 04/03/1991                            | <b>679,922</b>    | 09/22/1992                               | <b>5,149,759</b>  |
| 1990/F138         | 04/26/1991                            | <b>692,215</b>    | 03/15/1994                               | <b>5,293,676</b>  |
| 1990/F138         | 08/19/1993                            | <b>108,227</b>    | 06/13/1995                               | <b>5,424,123</b>  |
| 1991/F015         | 01/16/1992                            | <b>821,992</b>    | 08/10/1993                               | <b>5,235,029</b>  |
| 1991/F019         | 01/21/1992                            | <b>236,671</b>    |                                          |                   |
| 1991/F051         | 02/12/1992                            | <b>834,584</b>    | 03/01/1994                               | <b>5,290,907</b>  |
| 1991/F112         | 04/13/1992                            | <b>868,037</b>    | 05/11/1999                               | <b>5,902,672</b>  |
| 1991/F132         | 04/30/1992                            | <b>592,604</b>    | 02/03/1998                               | <b>5,714,226</b>  |
| 1991/F134         | 04/30/1992                            | <b>876,862</b>    | 11/15/1994                               | <b>5,364,686</b>  |
| 1991/F208         | 06/29/1992                            | <b>905,893</b>    | 11/30/1993                               | <b>5,266,672</b>  |
| 1992/F003         | 01/13/1993                            | <b>003,798</b>    | 11/22/1994                               | <b>5,366,797</b>  |
| 1992/F020         | 01/27/1993                            | <b>009,650</b>    |                                          |                   |
| 1992/F152         | 05/27/1993                            | <b>068,055</b>    | 08/30/1994                               | <b>5,342,677</b>  |
| 1992/F178         | 06/18/1993                            | <b>079,987</b>    | 12/13/1994                               | <b>5,372,760</b>  |
| 1992/F210         | 07/12/1993                            | <b>090,787</b>    | 07/23/1996                               | <b>5,538,792</b>  |
| 1992/F211         | 07/12/1993                            | <b>090,326</b>    | 02/21/1995                               | <b>5,390,400</b>  |
| 1992/F221         | 07/26/1993                            | <b>097,121</b>    | 12/06/1994                               | <b>5,370,833</b>  |
| 1992/F270         | 08/24/1993                            | <b>111,210</b>    | 09/06/1994                               | <b>5,344,710</b>  |
| 1992/F270         | 08/24/1993                            | <b>213,033</b>    |                                          |                   |

| Docket No. | Filing Date<br>Month/Day/Year | Serial No. | Date of Patent<br>Month/Day/Year | Patent No. |
|------------|-------------------------------|------------|----------------------------------|------------|
| 1992/F284  | 09/02/1993                    | 473,219    |                                  |            |
| 1992/F284  | 09/02/1993                    | 116,139    | 05/20/1997                       | 5,631,085  |
| 1992/F315  | 10/04/1993                    | 819,303    | 04/07/1998                       | 5,735,110  |
| 1993/F257  | 08/25/1994                    | 296,105    | 02/27/1996                       | 5,494,993  |
| 1993/F308  | 10/04/1994                    | 657,008    | 12/16/1997                       | 5,698,324  |
| 1993/F396  | 11/29/1994                    | 346,405    | 05/21/1996                       | 5,518,813  |
| 1993/F431  | 12/21/1994                    | 360,614    | 08/19/1997                       | 5,658,662  |
| 1994/F008  | 01/12/1995                    | 371,752    | 06/10/1997                       | 5,637,114  |
| 1994/F011  | 01/20/1995                    | 375,642    | 01/14/1997                       | 5,593,777  |
| 1994/F085  | 04/04/1995                    | 416,148    | 07/08/1997                       | 5,646,234  |
| 1994/F087  | 04/05/1995                    | 417,305    | 11/05/1996                       | 5,571,891  |
| 1994/F249  | 08/28/1995                    | 520,662    |                                  |            |
| 1994/F754  | 07/10/1997                    | 891,187    | 09/07/1999                       | 5,948,828  |

Signed at Frankfurt, Federal Republic of Germany  
this 1st day of November 1999

# HOECHST AKTIENGESELLSCHAFT

(full names of signatories)

Werner Dupré  
Prokurist

Dr. Hermann Krug  
Authorized Signatory