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COVER SHEET

101046702

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

MLB 4-9-99

1. Name of conveying party(ies)
Rainer BECKER, Franz Josef BROECKER,
Gerd KAIBEL, Rolf PINKOS,
Joachim WULFF-DOERING

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

3. Nature of conveyance:

/x/ Assignment // Merger
// Security Agreement // Change of Name

Execution Date: 10/13/97

2. Name and address of receiving party(ies)

BASF Aktiengesellschaft
Street Address: 67056 Ludwigshafen
Germany

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached?
// Yes /x/ No

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:

4/9/99

A. Patent Application No.(s)

B. Patent No.(s)

09-284209

Additional numbers attached? // Yes /x/ No

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

Name: Herbert B. Keil
Internal Address:
Street Address: Keil & Weinkauf
1101 Connecticut Ave. N.W
City: Washington State: D.C ZIP: 20036

6. Total number of applications and
and patents involved: / 1 /

7. Total Fee(37 CFR 3.41).... \$ 40.00
Since the omitted name was on the
original document, no fee should be
required.

8. Deposit Account 11-0345 if fee is
deficient or not attached /X/

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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
copy is a true copy of the original document.

04/15/1999 MCLAYBRO 0660002 09284209
02 FC:581 40.00

Herbert B. Keil
Name of Person Signing

Herbert B. Keil
Signature

Oct 19, 1998
Date

Total number of pages 5

Assignment of Application

O. Z. 0050/47397

WHEREAS, I (WE)

Rainer Becker, Im Haseneck 22, 67098 Bad Dürkheim
 Franz Josef Bröcker, Schwanthaler Allee 20, 67061 Ludwigshafen
 Gerd Kaibel, Robert-Bosch-Str.4, 68623 Lampertheim
 Rolf Pinkos, Birkental 3a, 67098 Bad Dürkheim
 Joachim Wulff-Döring, Hanns-Fay-Str.4, 67227 Frankenthal
 Federal Republic of Germany
 citizen(s) of the Federal Republic of Germany

respectively, have invented certain new and useful improvements in

Preparation of 1,4-butanediol by catalytic hydrogenation of 1,4-butyndiol

for which an application for Letters Patent was executed on

(Application No. _____, filed _____), and

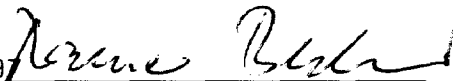
WHEREAS, *BASF Aktiengesellschaft* (hereinafter referred to as "ASSIGNEE"), having a place of business at 67056 Ludwigshafen, Federal Republic of Germany, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;


NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, 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 me (us) had this Assignment and sale not been made.


FURTHER, I (WE) agree that I (WE) will communicate to said ASSIGNEE, or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries

The undersigned hereby grant(s) the firm of **Messrs. Keil & Weinkauff**, 1101 Connecticut Ave., N. W., Washington, D. C. 20036 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 13/10/97 
 Rainer Becker

Date: 13/10/97 
 Franz Josef Bröcker

Date: 13/10/97 
 Gerd Kaibel

Date: 13/10/97 
 Rolf Pinkos

Date: 13/10/97 
 Joachim Wulff-Döring