



RECORDATION FORM COVER SHEET
PATENTS ONLY

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FROMMER LAWRENCE & HAUG LLP
745 Fifth Avenue
New York, New York 10151
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File No.: 514453-3844

3/26/01

Applicant : Wingen et al

For : **TETRAHYDROTHIOPHENE DERIVATIVES, AND
THEIR USE IN LIQUID-CRYSTALLINE MIXTURES**

Filing Date : November 7, 2000

Assistant Commissioner for Patents

- 1. Name of Conveying Party(ies): 1) Rainer Wingen 2) Barbara Hornung, and 3) Wolfgang Schmidt
- 2. Name and address of receiving party(ies): Clariant International Ltd, Rothausstrasse 61, 4132 Muttenz, Switzerland
- 3. Nature of Conveyance: Assignment (1)
 - Application No. or Patent No.: 09/708,852, filed November 7, 2000
 - ~~This document is being filed together with a new application.~~ The execution date of this Assignment for inventor 1) is January 2, 2000; inventor 2) is January 3, 2001; and inventor 3) is January 8, 2001.

5. Name and address of party to whom the recorded assignment and any correspondence concerning document should be mailed:
William F. Lawrence, Registration No. 28,029
Frommer Lawrence & Haug LLP
745 Fifth Avenue
New York, New York 10151

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41): \$ 40.00
■ Fee enclosed, Check No. 14732

8. Charge Fee Deposit Account No.: 50-0320 (Attach duplicate copy of this page if paying by deposit account).
If any additional fee is required, authorization is hereby given to charge Deposit Account No. 50-0320.

9. Statement and Signature.
The assignment documents were reviewed and to the best of the assignee's knowledge and belief, title is in the assignee seeking this action.

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.

Name of Person Signing: *William F. Lawrence*
William F. Lawrence, Reg. No. 28,029

Date: March 26, 2001

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INVENTION/PATENT APPLICATION ASSIGNMENT
FROM INVENTOR(S) TO COMPANY

WHEREAS I/WE; Rainer Wingen, Langenhainer Weg 11, 65795 Hattersheim, Germany;
Barbara Hornung, Schulstrasse 21A, 63594 Hasselroth, Germany; and Wolfgang Schmidt,
Staffordstrasse 5A, 63303 Dreieich, Germany, have made a certain new and useful invention as set forth in
an application for United States Letters Patent, entitled: **TETRAHYDROTHIOPHENE DERIVATIVES,**
AND THEIR USE IN LIQUID-CRYSTALLINE MIXTURES executed by me on the date of execution of
this document, as shown below, and filed concurrently herewith;

OR

for which an application for United States Letters Patent was filed on November 7, 2000 and identified by
United States Serial No. ; 09/708,852

AND WHEREAS, Clariant International Ltd , Rothausstrasse 61, 4132 Muttenz, Switzerland
hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said
invention and in and to any and all Letters Patent of the United States and foreign countries that may be
obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which
is hereby acknowledged, We do hereby sell, assign, transfer and set over unto said assignee, its legal
representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth
in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues,
re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign
countries that may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not
execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time
upon request, without further or additional consideration but at the expense of said assignee, execute such
additional assignments and other writings and do such additional acts as said assignee may deem necessary
or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making
application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued,
or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in
enforcing any rights or choses in action accruing as a result of such applications or patents, by giving
testimony in any proceedings or transactions involving such applications or patents, and by executing
preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement
shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the
United States that may be issued for said invention to said assignee, its legal representatives, successors or
assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered
thereby.

2001-07-02
Date
2001-01-03
Date
2001-01-03
Date

Rainer Wingen
Signature: Rainer Wingen
Barbara Hornung
Signature: Barbara Hornung
Wolfgang Schmidt
Signature: Wolfgang Schmidt