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B/O FORM PTO-1595 (Rev. 6/93)

U.S. Department of Commerce  
Patent and Trademark Office



101401458

6-6-00

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

1. Name of Conveying Party(ies):

Ake LIGNELL  
Johan INBORR  
Curt NICOLIN

Additional names of conveying parties attached.

2. Name and Address of Receiving Party(ies):

Name: **ASTACAROTENE AB**

Internal Address:

Street Address: **Idrottsvagen 4**

City, State, Zip: **S-134 40 Gustavsberg, SWEDEN**

Additional name(s) and address(es) attached.

3. Nature of Conveyance:

- Assignment
- Security Agreement
- Other:
- Merger
- Change of Name

Execution Date: **5/23/00 and 5/25/00**

4. (A) Patent Application Number(s):

**PCT/SE98/02138**

4. (B) Patent Number(s):

**09-555514**

If this document is being filed together with a new application, the execution date of the application is: **5/23; 5/25/00**

Additional Numbers Attached.

5. Name and Address of Party to whom Correspondence Concerning this Document Should be Mailed:

Name: **RICHARD E. FICHTER**  
Registration No. **26,382**

Address: **Bacon & Thomas**  
**625 Slaters Lane**  
**Alexandria, VA 22314**

Total Number of Applications and Patents Involved:

**1**

7. Total Fee:  
(37 CFR 3.41)

**\$40.00**

- Enclosed
- Authorized to be charged to deposit account

8. Deposit Account Number: **02-0200**

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9. Statement and Signature:

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

06/12/2000 MCLAYDR 00000135-09555514  
02 FC 581  
Name of Person Signing **Richard E. Fichter**  
40.00 DP

*Richard E. Fichter*  
Signature

June 6, 2000  
Date

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

**ASSIGNMENT**

WHEREAS, I, Ake LIGNELL, Johan INBORR and Curt NICOLIN, whose post office addresses appear below, hereinafter referred to as ASSIGNOR, have invented certain new and useful improvements in **METHOD OF INCREASING THE PRODUCTION AND IMPROVING THE QUALITY OF SEMEN**, (hereinafter referred to as the INVENTION) (Attorney Docket REF/LIGNELL/138) for which an application for United States Letters Patent (PCT/SE98/02138) was executed on even date herewith.

WHEREAS, **ASTACAROTENE AB**, whose post office address is **Idrottsvagen 4, S-134 40 GUSTAVSBERG, SWEDEN**, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, we, ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the INVENTION that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

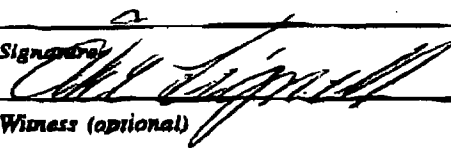
ASSIGNOR authorizes any member of the firm of *Bacon & Thomas* to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office.

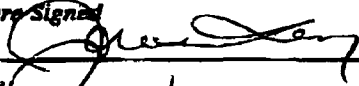
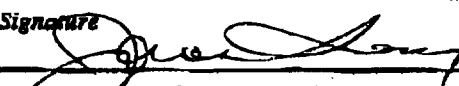
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ASSIGNMENT

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Page Two

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<b>Date</b> 23 May 2000	<b>Signature</b> 
<b>Witness (optional)</b>	<b>Witness (optional)</b>
_____ Print Type Name	_____ Print Type Name
_____ Signature	_____ Signature

<b>Assignor Name</b> Johan INBERR	<b>Address</b> Baskogsgatan 27 Ploglandet, 35952 Varmdo S-531 55 LIDKOPING, SWEDEN
<b>Where Signed</b> 	
<b>Date</b> 25/5, 2000	<b>Signature</b> 
<b>Witness (optional)</b>	<b>Witness (optional)</b>
_____ Print Type Name	_____ Print Type Name
_____ Signature	_____ Signature

<b>Assignor Name</b> Curt NICOLIN	<b>Address</b> Maricbergs Sateri S-147 92 GRODINGE, SWEDEN
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<b>Witness (optional)</b>	<b>Witness (optional)</b>
_____ Print Type Name	_____ Print Type Name
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