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Tab settings =>>>

To the Honorable Commission

NET

U.S. DEPARTMENT OF COMMERCE

ied original documents or copy thereof

1. Name of conveying party(ies)

Thomas Liljenberg
Stefan Backa
Lennart Thegel
Mats Åbom

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

2. Name and address of receiving party(ies)

Name
ABB AB

Street Address:
SE-721 83 Västerås
Sweden

Additional Name(s) & address(es) attached? Yes No

3. Nature of conveyance:

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

Execution Date: **January 31, January 15, January 27, and January 21, 2003**

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)
10/332,954

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name **Edward A. Pennington**

Internal Address **Suite 300**

Street Address: **3000 K Street, N.W.**

City: **Washington** State: **D.C.** Zip **20007-5116**

6. 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: **195127, 19387.0019**

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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

Eric J. Franklin, RN 37,134
Name of Person Signing

Signature

April 29, 2003
Date

Total number of pages including cover sheet, attachments, and documents

10332954

ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS:

Thomas Liljenberg, Värmlandsvägen 4, S-722 44 Västerås, Sweden; Stefan Backa, Vasagatan 7, SE-652 22 Karlstad, Sweden; Lennart Thegel, Svartågatan 12, S-722 40 Västerås, Sweden; and Mats Åbom, Rågängen 86, S-175 46 Järfälla, Sweden (hereinafter referred to as ASSIGNOR(S)), has made a discovery or invention entitled:

REFINER CONTROL

- for which application for Letters Patent of the United States has been executed on even date herewith,
- for which application for Letters Patent of the United States has been filed on _____, under Application No. _____, and

WHEREAS:

ABB AB, a corporation of Sweden having a business address of Kopparbergsvägen, S-721 83 Västerås, Sweden (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said discovery or invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

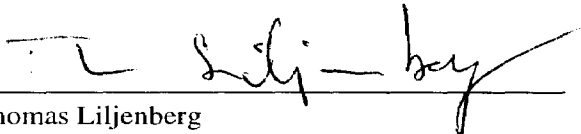
I, SAID ASSIGNOR(S), hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behoof of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.


I, SAID, ASSIGNOR(S), hereby covenant that I have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over;

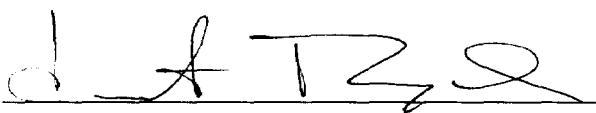
AND I, SAID ASSIGNOR(S) hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for foreign Letters Patent on said discovery or invention and claim the benefits of the International Convention, and that I will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, I will, at any time, when called upon to do so by the ASSIGNEE its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of


such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

Signed:

(1)  Date: 2003-01-31
Thomas Liljenberg

(2)  Date: 2003 01-15
Stefan Backa

(3)  Date: 2003-01-27
Lennart Thegel

(4)  Date: 2111-2003
Mats Åbom