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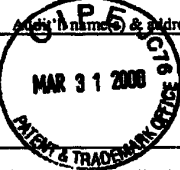
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To the Honorable Commissioner of Patents

original documents or copy thereof

<p>1. Name of conveying party(ies): ASEA BROWN BOVERJ AB SE-721 83 Vasterås, Sweden</p> <p>4-18-00</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): ABB AB SE-721 83 Vasterås, Sweden</p> <p>Additional name(s) & address(es) attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance: <input type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input checked="" type="checkbox"/> Change of name <input type="checkbox"/> Other</p> <p>[] Merger</p> <p>Execution date: 7/26/99</p>	
<p>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:</p> <p>A. Patent Application No.(s) 09/30,560</p> <p>B. Patent No.(s)</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No.</p>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed: Elzbieta Chlopecka, Reg. No. 32,767 P. Slock, Vande Sande & Amentick Suite 800 1190 M Street, N.W. Washington, D.C. 20036-4421</p>	<p>6. Total Number of applications and patents involved: 1</p> <p>7. Total fee (37 C.F.R. 3.41)...\$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account <input checked="" type="checkbox"/> Charge deficiencies/credit overpayments to Deposit Account 22-0185</p> <p>8. Deposit Account No. 22-0185</p>

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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.

Elzbieta Chlopecka Date: 03-31-2000
Elzbieta Chlopecka, Reg. No. 32 767

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PATENT
REEL: 010740 FRAME: 0709

PRVPATENT- OCH REGISTRERINGSVERKET
Bolagsavdelningen

CERTIFICATE OF REGISTRATION

SWEDEN

Registration number: 556029-7029
 Date of registration: 1931-01-23
 Company name: ABB AB
 Address:
 721 83 VÄSTERÅS
 Registered office: Västerås
 Share capital: SEK 400.000.000



BOARD OF DIRECTORS:

450428-5844 Andersson, Gerd Gun-Britt, (A), Syrénvägen 125,
 722 43 VÄSTERÅS
 350302-1218 Ericsson, Tomas Åke, (U), Oescherstrasse 8,
 CH-8702 ZOLLIKON, SCHWEIZ
 450428-8715 Lindahl, Knut Göran, (U), (O),
 c/o ABB Asea Brown Boveri Ltd, P.O. Box 8131, 8050 ZÜRICH, SCHWEIZ
 420123-7338 Lindberg, Hans Jonny, (A), Skyttegatan 8,
 771 35 LUDVIKA
 481102-3599 Narvinger, Anders Ingvar, Villagatan 1,
 724 60 VÄSTERÅS
 430423-5056 Skantze, Bengt Peter, (U), Gsteigstr 21,
 8703 ERLENBACH, SCHWEIZ
 470831-1958 Tollwé, Fans Peter, (A), Östra Promenaden 23 B,
 602 29 NORRKÖPING

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 167 75 BROMMA
 501203-6934 Selfors, Ebbe Mats-Åke, (A), Bangatan 33 B,
 722 27 VÄSTERÅS
 390326-1695 Sköld, Leif Erik, (A), Notgårdsvägen 20,
 771 41 LUDVIKA
 500728-1198 Svensson, Bengt Roland, (A), Kaserngatan 51,
 723 47 VÄSTERÅS

MANAGING DIRECTOR:

481102-3599 Narvinger, Anders Ingvar, Villagatan 1,
 724 60 VÄSTERÅS

DEPUTY MANAGING DIRECTOR:

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 541215-1697 Carlsson, Peter Henry, Rävårdsvägen 16 A,
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CONTD.

PATENT
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PRVPATENT- OCH REGISTRERINGSVERKET
Bolagsavdelningen

CERTIFICATE OF REGISTRATION

SWEDEN

Registrations number: 556029-7029
 Date of registration: 1931-01-23
 Company name: ABB AB
 Address:
 Registered office: 721 83 VÄSTERÅS
 Västerås
 Share capital: SEK 400.000.000

490325-0118 Jakobsson, Sten Erik, Herrgården, 771 31 LUDVIKA
 530531-7173 Josefsson, Lars Olof, Högalidsvägen 2,
 612 40 FINSPÅNG
 571020-5997 Secher, Jan Joel Aron, Gästgivarvägen 11,
 724 60 VÄSTERÅS
 431130-2832 Wahrolén, Thorvald Anders Ingemar, Sveavägen 94,
 113 50 STOCKHOLM

OTHER PERSONS AUTHORIZED TO SIGN ON BEHALF OF THE COMPANY:

510416-7019 Björkenor, Bo Gunnar, Apalbyvägen 9, 722 18 VÄSTERÅS
 350623-2333 Hedvall, Per Olof Gunnar, Föreningsgatan 40,
 722 18 VÄSTERÅS
 630223-7182 Hillman Vestlund, Anna Katarina, Karlskatan 15 B,
 722 14 VÄSTERÅS
 410715-4314 Johansson, Jan Roger, Sveavägen 15 B, 724 60 VÄSTERÅS
 400714-8994 Lindbäck, Lars Erik, Södra Billstagan 6,
 722 40 VÄSTERÅS
 590724-3561 Malmgren Heander, Marie Carina, Åkerbärsstigen 6,
 125 56 ÄLVSJÖ
 400618-8934 Martinsson, Jan Henrik, Eriksgatan 9, 724 60 VÄSTERÅS

COMPANY AUDITORS:

430711-0678 Hansson, Torbjörn, Nytorpsvägen 22, 142 63 TRÅNGSUND
 380420-1238 Widhagen, Sven Gunnar, Borstgränd 12,
 137 00 VÄSTERHANINGE

DEPUTY AUDITORS:

490511-1094 Cederberg, Karl Olof, Bertilbergsvägen 5,
 181 61 LIDINGÖ
 511107-1030 Wiger, Anders Ingemar, Rosenhillsvägen 9 A,
 137 00 VÄSTERHANINGE

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PATENT
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PRVPATENT- OCH REGISTRERINGSVERKET
Bolagsavdelningen**CERTIFICATE OF REGISTRATION****SWEDEN**

Registration number: 556029-7029
Date of registration: 1931-01-23
Company name: ABB AB
Address:
Registered office: 721 83 VÄSTERÅS
Västerås
Share capital: SEK 400.000.000

SIGNATORY POWER:

In addition to the Board of Directors,
any two jointly of

Ericsson, Tomas Åke
Lindahl, Knut Göran
Narvinger, Anders Ingvar
Skantze, Bengt Peter
Piscator, Karin Harriet Kristina
Carlsson, Peter Henry
Jakobsson, Sten Erik
Josefsson, Lars Olof
Secher, Jan Joel Aron
Wahrolén, Thorvald Anders Ingemar
Björkenor, Bo Gunnar
Johansson, Jan Roger
Malmgren Heander, Marie Carina

or any one of them in combination with any one of
Hedvall, Per Olof Gunnar
Hillman Vestlund, Anna Katarina
Lindbäck, Lars Erik
Martinsson, Jan Henrik

are entitled to sign on behalf of the company.

Furthermore, the Managing Director, in his normal business
activities, is also entitled to sign on behalf of the company.

NOTE: 4 members and 2 deputy members have been stipulated for
the Board of Directors, in addition to the employee
representatives.

CONTD.

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PRVPATENT- OCH REGISTRERINGSVERKET
Bolagsavdelningen**CERTIFICATE OF REGISTRATION****SWEDEN**

Registration number: 556029-7029
 Date of registration: 1931-01-23
 Company name: ABB AB
 Address:
 Registered office: 721 83 VÄSTERÅS
 Västerås
 Share capital: SEK 400.000.000

FINANCIAL YEAR:

Registered financial year: 0101-1231
 Latest annual report submitted covers financial
 period 980101-981231

DATE OF REGISTRATION OF CURRENT AND PREVIOUS COMPANY NAMES:

~~1999-07-26 ABB AB~~
 1987-12-23 ASEA BROWN BOVERI Aktiebolag
 1981-12-30 ASEA Svenska Försäljning Aktiebolag
 1977-12-12 Aktiebolaget Elektromaskiner
 1931-01-23 Elektriska Aktiebolaget Sivers & Häger

SUNDSVALL 1999-08-11
 Ex officio

Gunn Lahti
 GUNN LAHTI



(A) = employee representative
 (U) = person resident outside EEA
 (E) = person resident outside Sweden but within EEA
 (O) = chairman of the board

RECORDED: 04/18/2000

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