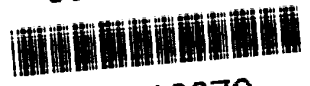


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09-03-1998



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Assistant Commis
Washington, D.C.

JCS42 U.S. PTO
09/140261
08/26/98

Dear Sir:

Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies):

1. JIENING AO, 2. PIETER IBELINGS,

2. Name and Address of Receiving Party

Scientific-Atlanta, Inc.,
One Technology Parkway, South
Norcross, GA 30092-2967

State of Incorporation:

Georgia

3. Nature of Conveyance: Assignment Execution Date: August 20, 1998

4. This document is being filed along with a new patent application,

Docket No.: A-4998
Title: SIGNAL LEVEL CONTROL CIRCUIT FOR
AMPLIFIERS

the execution date of the application is: August 26, 1998

5. Please send correspondence to:

Scientific-Atlanta, Inc.,
Intellectual Property Department
One Technology Parkway, South
Norcross, GA 30092-2967

6. Total Number of application and patents involved: 1

7. Total Fee (37 CFR 3.41) \$ 40.00 ✓

8. Please charge to Deposit Account No.: 19-0761

9. To the best of my knowledge and belief, the foregoing information is a true and correct original document.

DO NOT USE THIS SPACE

SEND CORRESPONDENCE TO:
Scientific-Atlanta, Inc.
Intellectual Property Department
One Technology Parkway, South
Norcross, GA 30092-2967

By: Kelly A. Gardner
Kelly A. Gardner
Attorney of Record
Reg. No.: 35,147
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Fax No.: (770) 903-4806

Total Number of pages comprising
cover sheet: 1

Dated: August 26, 1998

PATENT
REEL: 9412 FRAME: 0176

09/02/1998 JMH/KLS 00000020 18
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ASSIGNMENT AND AGREEMENT

For and in consideration of the sum of One Dollar to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, **JIENING AO AND PIETER IBELINGS**, have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **SCIENTIFIC-ATLANTA, INC.**, a corporation of the State of Georgia, having its principal office in Norcross, State of Georgia, United States of America, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in **SIGNAL LEVEL CONTROL CIRCUIT FOR AMPLIFIERS (Case No. A-4998)** described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to said application, and in and to Letters Patent which may be issued upon said application, and upon any division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto the said **SCIENTIFIC-ATLANTA, INC.**, the entire right, title and interest in and to said invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of said invention and said applications for Letters Patent in foreign countries, and we further authorize the said **SCIENTIFIC-ATLANTA, INC.** to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the said application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to the said **SCIENTIFIC-ATLANTA, INC.**, for the sole use and behoof of said **SCIENTIFIC-ATLANTA, INC.**, its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to the said **SCIENTIFIC-ATLANTA, INC.**

We agree that, when requested, we will, without charge to said SCIENTIFIC-ATLANTA, INC., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said SCIENTIFIC-ATLANTA, INC., its successors, assigns and legal representatives or nominees.

We covenant with said SCIENTIFIC-ATLANTA, INC., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

Jiening AO
JIENING AO

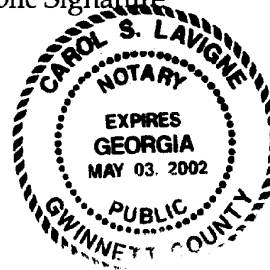
8 / 20 / 98
DATE

STATE OF GEORGIA)
COUNTY OF Gwinnett)

I, CAROL S. LAVIGNE, a Notary Public in and for the County and State aforesaid, do hereby certify that the same person whose name is **JIENING AO** subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 20th day of August, 1998.

Carol S. Lavigne
Notary Public Signature



Pieter Ibelings

PIETER IBELINGS

8/20/98

DATE

STATE OF GEORGIA)

COUNTY OF Gwinnett)

I, CAROL S. LAVIGNE, a Notary Public in and for the County and State aforesaid, do hereby certify that the same person whose name is **PIETER IBELINGS** subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 20th day of August, 1998.

Carol S. Lavigne

Notary Public Signature

