

09-28-2000

Docket No.:

ET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



101475897

9.1800

Tab settings → → → ▼ ▼ ▼ ▼

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

1. Name of conveying party(ies):

Harman International Industries, Incorporated

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: **August 3, 2000**

2. Name and address of receiving party(ies):

Name: **Crown Audio, Inc. d/b/a Crown International**

Internal Address:

Street Address: **1718 W. Mishawaka Road**

City: **Elkhart** State: **IN** ZIP: **46515**

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

5,015,969	5,182,465	5,045,990
5,309,517	4,611,180	5,276,603
5,500,626	4,644,288	5,483,503
5,805,717	5,657,219	5,513,094

Additional numbers attached? ☐ Yes ☒ No

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

Name: **Eric J. Groen**

Internal Address: **Baker & Daniels**

Street Address: **205 West Jefferson Blvd., Suite 250**

City: **South Bend** State: **IN** ZIP: **46601**

6. Total number of applications and patents involved: **16**

7. Total fee (37 CFR 3.41):.....\$ **640.00**

- ☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account
☐ Authorized to be charged to deposit account

8. Deposit account number:

02-0387

DO NOT USE THIS SPACE

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. Groen

Name of Person Signing

Signature

August 15, 2000

Date

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

09/27/2000 11ALLAN2 00000103 5015969

01 FC:581

640.00 DP

PATENT
REEL: 011103 FRAME: 0640

RECORDATION FORM COVER SHEET

PATENTS ONLY

CONTINUATION OF 4.B. Patent No.(s)

4,330,809

4,788,452

4,658,932

D394,858

Eric J. Groen, Reg. No. 32,230
Baker & Daniels
205 West Jefferson Blvd., Suite 250
South Bend, IN 46601

\\ODMA\PCDOCS\SBDOCS\171551\1

ASSIGNMENT

WHEREAS Harman International Industries, Incorporated, a Delaware corporation, having a principal place of business at 1101 Pennsylvania Avenue NW, Suite 1010, Washington, D.C. 20004 (the "Assignor") is owner of the entire right, title and interest in and to the patents and patent applications ("the Patents") which are found in the Schedule of Patents attached hereto as Attachment "A";

WHEREAS Crown Audio, Inc. d/b/a Crown International, a Delaware corporation, having a principal place of business at 1718 W. Mishawaka Road, Elkhart, IN 46515-4095 (the "Assignee") is desirous of acquiring all right, title and interest in said Patents, in the United States and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor does hereby assign unto the Assignee all right, title and interest in and to the Patents, including any and all continuations, continuations-in-part, divisionals, reissues and reexaminations thereof, and any and all corresponding foreign patents and applications. Assignor further assigns to Assignee the right to sue and collect damages for any and all past and present infringement of the Patents.

Dated this 3rd day of August, 2000.

Harman International Industries, Inc.

By: Andrea B Robinson
Vice President

ATTACHMENT A

SCHEDULE OF PATENTS

U.S. PATENTS

Patent	Patent No.	Issue Date	Owner
Amplifier Control System	5,015,969	May 14, 1991	Crown International, Inc.
Audio Multiplexer	5,309,517	May 3, 1994	Crown International, Inc.
Independent Amplifier Control Module	5,500,626	March 19, 1996	Crown International, Inc.
Light Sensitive Switch Microphone	5,805,717	September 8, 1998	Crown International, Inc.
Amplifier Selector for Magnetic Resonance Imaging Machine	5,182,465	January 26, 1993	Crown International, Inc.
Grounded Bridge Amplifier Protection through Transistor Thermo Protection	4,611,180	September 9, 1986	Crown International, Inc.
Method of Fault Sensing for Power Amplifiers having Coupled Power Stages with Normally Alternate Current Flow	4,644,288	February 17, 1987	Crown International, Inc.
Opposed Current Power Converter	5,657,219	August 12, 1997	Crown International, Inc.
Sixteen Level Power Supply with Asynchronous Controller	5,045,990	September 3, 1991	Crown International, Inc.
Sixteen Level Power Supply with Asynchronous Controller	5,276,603	January 4, 1994	Crown International, Inc.
Slew Rate Control in a Multi-Level Switch	5,483,503	August 1, 1998	Crown International, Inc.
Switch-Mode Power Supply For Bridged Linear Amplifier	5,513,094	April 30, 1996	Crown International, Inc.
Thermal Protection Circuit for the Die of a Transistor	4,330,809	May 18, 1982 (expired December 31, 1999)	Crown International, Inc.
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	4,788,452	November 29, 1988	Crown International, Inc.

Patent	Patent No.	Issue Date	Owner
Simulated Binaural Recording System	4,658,932	April 21, 1987	Crown International, Inc.
Front Panel for an Audio Amplifier	D394,858	June 2, 1998	Crown International, Inc.

INTERNATIONAL PATENTS

Patent	Country	Patent No.	Issue Date
Opposed Current Power Converter	Australia	701174	August 27, 1996
Opposed Current Power Converter	Singapore	51514	December 21, 1999
Switch-Mode Power Supply For Bridged Linear Amplifier	Australia	683308	November 6, 1997

Patent	Country	Patent No.	Issue Date
Switch-Mode Power Supply For Bridged Linear Amplifier	Canada	2,175,800	June 1, 1999
Switch-Mode Power Supply For Bridged Linear Amplifier	Europe (Denmark, Germany, Spain, France, Italy, Netherlands and Sweden)	0732004	April 29, 1998
Switch-Mode Power Supply For Bridged Linear Amplifier	Taiwan	097286	March 10, 1999
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	Australia	625659	November 29, 1988
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	Canada	1,318,945	June 8, 1993
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	France	2,636,183	December 1, 1995
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	Germany	P3891380.1	February 16, 1995
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	Israel	87677	April 26, 1994
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	Italy	1223803	September 26, 1990
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	Japan	2541515	April 25, 1997
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	Netherlands	193075	August 9, 1998

Patent	Country	Patent No.	Issue Date
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	Taiwan	N1-35507	April 2, 1990
Switchable DC Power Supply with Increased Efficiency for use in Large Wattage Amplifiers	United Kingdom	2230672	April 28, 1993
Front Panel for an Audio Amplifier	United Kingdom	207089	November 27, 1997
Front Panel for an Audio Amplifier	China	97329606.2	September 5, 1998

INTERNATIONAL PATENT APPLICATIONS

Patent	Country	Application No.	Filing Date
Power Supply Modulator Circuit for Transmitter (Licensed to Harris Corporation)	Canada	2174930	April 24, 1996
Power Supply Modulator Circuit for Transmitter (Licensed to Harris Corporation)	China	9419008.X	May 2, 1996
Power Supply Modulator Circuit for Transmitter (Licensed to Harris Corporation)	Europe	94927986.3	September 2, 1994
Light Sensitive Switch with Microphone	Argentina	960105873	December 23, 1996
Light Sensitive Switch with Microphone	Europe (France, Germany, Sweden, United Kingdom)	96940210.3	October 16, 1998
Light Sensitive Switch with Microphone	Taiwan	85110785	September 4, 1996
Opposed Current Power Converter	Brazil	P197011347	February 28, 1997

Patent	Country	Application No.	Filing Date
Opposed Current Power Converter	Canada	2,226,818	February 12, 1998
Opposed Current Power Converter	China	96196472.3	February 20, 1998
Opposed Current Power Converter	Europe	96929754.8	February 12, 1998
Opposed Current Power Converter	Finland	970847	February 28, 1997
Opposed Current Power Converter	Hong Kong	99100028.8	January 6, 1999
Opposed Current Power Converter	India	517/Del/97	February 27, 1999
Opposed Current Power Converter	Israel	120,352	February 28, 1997
Opposed Current Power Converter	Japan	9-510532	September 27, 1996
Opposed Current Power Converter	Korea	98-701327	February 23, 1998
Opposed Current Power Converter	Malaysia	P19700506	February 28, 1997
Opposed Current Power Converter	Mexico	981654	February 28, 1997
Opposed Current Power Converter	Norway	P970924	February 28, 1997
Opposed Current Power Converter	Russia	97103483	March 4, 1997
Opposed Current Power Converter	Taiwan	86102487	March 3, 1997
Switch Mode Power Supply for Bridged Linear Amplifier	Brazil	P19408193-0	September 21, 1994
Switch Mode Power Supply for Bridged Linear Amplifier	China	CN94194293.7	May 27, 1996
Switch Mode Power Supply for Bridged Linear Amplifier	Finland	962262	May 30, 1996
Switch Mode Power Supply for Bridged Linear Amplifier	India	867/Del/96	April 24, 1996

Patent	Country	Application No.	Filing Date
Switch Mode Power Supply for Bridged Linear Amplifier	Israel	118,010	April 23, 1996
Switch Mode Power Supply for Bridged Linear Amplifier	Japan	7-515594	May 30, 1996
Switch Mode Power Supply for Bridged Linear Amplifier	Korea	96-702784	May 18, 1996
Switch Mode Power Supply for Bridged Linear Amplifier	Malaysia	P9601597	April 19, 1996
Switch Mode Power Supply for Bridged Linear Amplifier	Norway	19962190	May 29, 1996
Switch Mode Power Supply for Bridged Linear Amplifier	Russia	9614947	August 1, 1996
Switch Mode Power Supply for Bridged Linear Amplifier	Singapore	9609345-5	April 23, 1996
Front Panel for an Audio Amplifier	Germany	M9709619.9	October 14, 1997
Temperature Compensated Closed-Loop Hall Effect Current Transformer	Germany	Not yet assigned	September 16, 1999
Temperature Compensated Closed-Loop Hall Effect Current Transformer	Japan	11-262060	September 16, 1999
Temperature Compensated Closed-Loop Hall Effect Current Transformer	Switzerland	Not yet assigned	September 16, 1999
Power Supply for Amplifiers	PCT	US9921340	September 16, 1999