Substitute for Form PTO-1595

12-22-2005



OVER SHEET

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

Name / 1847 And 1847 And 1848 And 184			
103142440	Attorney's Docket No. 052997-005		
To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.			
1. Name of conveying party(ies): David Leslie ELLGEN Harlan Keith BOND Steven MILLER Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No 3. Nature of conveyance:	2. Name and address of receiving party(ies): Name: PESA Switching Systems, Inc. Address: 330-A Wynn Drive Huntsville, Alabama		
	Additional name(s) & addresses attached? Yes X No		
 Application number(s) or patent number(s): If this document is being filed together with a new application, the 	ne execution date of the application is: December 15, 2005		
A. Patent Application No.(s) Additional numbers attached?	B. Patent No.(s)		
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:		
Name: Martin E. Miller Address: Buchanan Ingersoll PC Including attorneys from Burns, Doane, Swecker & Mathis Customer Number 2 1 8 3 9	7. Total fee (37 CFR 3.41)\$\$40.00 (8021) Enclosed Authorized to be charged to deposit account Credit card. Form PTO-2038 is attached.		
P.O. Box 1404 Alexandria, VA 22313-1404	8. Deposit account number: 02-4800 (Attach duplicate copy of this page if paying by deposit account.)		
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.			
Martin E. Miller 56,022 Name of Person Signing Reg. No. Total number of pages including cover sheet, attachn	Signature December 15, 2005 Date December 15, 2005		
Mail documents to be recorded with Director of the United States Patent and Trademark OP.O. Box 1450 / Alexa	required cover sheet information to: Iffice / Mail Stop Assignment Recordation Services		

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PATENT

REEL: 017370 FRAME: 0413

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by <u>David Leslie ELLGEN</u>, <u>Harlan Keith BOND</u> and <u>Steven MILLER</u>, residing at <u>107 Kingstowne Circle, Madison, Alabama 35758</u>, <u>1315 Hurricane Road, New Market, Alabama 35761</u> and <u>105 Grand Cove Place, Madison, Alabama 35758</u> (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in <u>APPARATUS AND METHOD FOR PERFORMING SIGNAL PROCESSING</u> set forth in an application for Letters Patent of the United States, which is a

(1)		provisional application	
	(a)		bearing Application No, and filed on;
	(b)		to be filed herewith; or
(2)	\boxtimes	☑ non-provisional application	
	(a)		bearing Application No, and filed on;
	(b)	\boxtimes	having an oath or declaration executed on even date herewith prior to filing of application;
	(c)		having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, <u>PESA Switching Systems</u>, <u>Inc.</u>, a corporation duly organized under and pursuant to the laws of <u>Delaware</u> and having a principal place of business at <u>330-A Wynn Drive</u>, <u>Huntsville</u>, <u>Alabama</u> (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made:

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

Page 1 of 2

(8/05)

Application No. _____Attorney Docket No. <u>52997-000005</u>

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Buchanan Ingersoll PC (including attorneys from Burns, Doane, Swecker & Mathis) to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

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	DATE	12	1 151	105

DATE 12/15/05

David Leslie ELLGEN

Harlan Keith BOND

DATE____

Steven MILLER

ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by <u>David Leslie ELLGEN</u>, <u>Harlan Keith BOND</u> and <u>Steven MILLER</u>, residing at <u>107 Kingstowne Circle</u>, <u>Madison</u>, <u>Alabama 35758</u>, <u>1315 Hurricane Road</u>, <u>New Market</u>, <u>Alabama 35761</u> and <u>105 Grand Cove Place</u>, <u>Madison</u>, <u>Alabama 35758</u> (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in APPARATUS AND METHOD FOR PERFORMING SIGNAL PROCESSING set forth in an application for Letters Patent of the United States, which is a

(1)	□ (a)	provi	ional application bearing Application No, and filed on;
	(b)		to be filed herewith; or
(2) 🗵		non-p	rovisional application
	(a)		bearing Application No, and filed on;
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WHEREAS. <u>PESA Switching Systems</u>, Inc., a corporation duly organized under and pursuant to the laws of <u>Delaware</u> and having a principal place of business at <u>330-A Wynn Drive</u>, <u>Huntsville</u>, <u>Alabama</u> (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

Page 1 of 2

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AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any roisauc or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns:

AND the Assignors hereby authorize and request the attorneys of Buchanan Ingersott PC (including attorneys from Burns, Doane, Swecker & Mathis) to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

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DATE	
	David Leslie ELLGEN
DATE	
	Harlan Keith BOND
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	Steven MILLER

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RECORDED: 12/15/2005

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