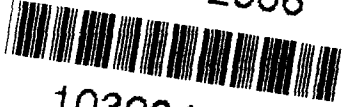


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S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 6/30/2005)

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): HONG SHEN RAVI RAMANATHAN QIULIANG LUO ROBERT W WARREN USAMA K ABDALI

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

2. Name and address of receiving party(ies)

Name: SKYWORKS SOLUTIONS, INC.

Internal Address:

Street Address: 5221 California Avenue

City: Irvine State: CA Zip: 92612

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

3. Nature of conveyance:

- Assignment Merger Security Agreement Change of Name Other

March 1, 2006

Execution Date: March 3, 2006

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 March 1, 2006 March 9, 2006 March 13, 2006

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: William J. Kolegraff

Internal Address:

Street Address: 3119 Turnberry Way

City: Jamul State: CA Zip: 91935

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:

DO NOT USE THIS SPACE

9. Signature.

William J. Kolegraff Name of Person Signing

Signature

3-16-2006 Date

Total number of pages including cover sheet, attachments, and documents: 11

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

113762 U.S. PTO 11/377690



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03/21/2006 HMARZII 00000075 11377690

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**ASSIGNMENT**

For value received, the receipt of which is hereby acknowledged, the following inventor, **HONG SHEN**, (the "ASSIGNOR") hereby assigns, transfers and sets over to **SKYWORKS SOLUTIONS, INC.**, having a place of business at 5221 California Avenue, Irvine California 92612, (the "ASSIGNEE"), the entire worldwide right, title and interest in and to the invention known as: **GAAS INTEGRATED CIRCUIT DEVICE AND METHOD OF ATTACHING SAME**, for which a United States Patent Application was filed on \_\_\_\_\_, Serial No. \_\_\_\_/\_\_\_\_\_, and all rights and privileges under any Letters Patent which may be granted thereon.

1. The ASSIGNOR agrees without charge to said ASSIGNEE to (a) execute (i) all necessary papers to be used in connection with this application and any additional necessary or expedient documents, (ii) all papers in connection with any interference or other legal or quasi-legal proceedings relating to this application or any additional, continuing, or divisional application thereof, (iii) all papers and documents which may be necessary in connection with the preparation and filing of any foreign applications or with making claims to priority rights granted under the provisions of the International Convention for Protection of Industrial Property, Patent Cooperation Treaty, or similar agreements; and (b) to cooperate with ASSIGNEE in obtaining evidence and going forward in any proceeding in connection with this application. The ASSIGNOR agrees for a reasonable charge to said ASSIGNEE to perform all other affirmative acts that may be necessary or desirable to obtain a grant of a valid patent for said invention in any country throughout the world.

2. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials in any other country, to issue any and all Letters Patent that may be granted upon said patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.

3. ASSIGNOR hereby covenants and warrants that it has full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

4. ASSIGNOR hereby grants to William J. Kolegraff, of Jamul, California, authority and power to insert on this instrument any further identification that may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

  
\_\_\_\_\_  
Assignor Signature

3/1/2006  
\_\_\_\_\_  
Date

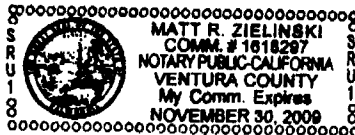
State of California )  
County of Ventura ) ss.

On March 1 2006 (date) before me, Matt R Zielinski  
(name and title "Notary Public"), personally appeared Hong Shen

(name[s] of signer[s]), personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Matt Zielinski  
(Signature of Notary)



(Seal of Notary)

**ASSIGNMENT**

For value received, the receipt of which is hereby acknowledged, the following inventor, **RAVI RAMANATHAN**, (the "ASSIGNOR") hereby assigns, transfers and sets over to **SKYWORKS SOLUTIONS, INC.**, having a place of business at 5221 California Avenue, Irvine California 92612, (the "ASSIGNEE"), the entire worldwide right, title and interest in and to the invention known as: **GAAS INTEGRATED CIRCUIT DEVICE AND METHOD OF ATTACHING SAME**, for which a United States Patent Application was filed on \_\_\_\_\_, Serial No. \_\_\_\_\_/\_\_\_\_\_, and all rights and privileges under any Letters Patent which may be granted thereon.

1. The ASSIGNOR agrees without charge to said ASSIGNEE to (a) execute (i) all necessary papers to be used in connection with this application and any additional necessary or expedient documents, (ii) all papers in connection with any interference or other legal or quasi-legal proceedings relating to this application or any additional, continuing, or divisional application thereof, (iii) all papers and documents which may be necessary in connection with the preparation and filing of any foreign applications or with making claims to priority rights granted under the provisions of the International Convention for Protection of Industrial Property, Patent Cooperation Treaty, or similar agreements; and (b) to cooperate with ASSIGNEE in obtaining evidence and going forward in any proceeding in connection with this application. The ASSIGNOR agrees for a reasonable charge to said ASSIGNEE to perform all other affirmative acts that may be necessary or desirable to obtain a grant of a valid patent for said invention in any country throughout the world.

2. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials in any other country, to issue any and all Letters Patent that may be granted upon said patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.

3. ASSIGNOR hereby covenants and warrants that it has full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

4. ASSIGNOR hereby grants to William J. Kolegraff, of Jamul, California, authority and power to insert on this instrument any further identification that may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

R. Ramanathan  
Assignor Signature

March 1, 2006.  
Date

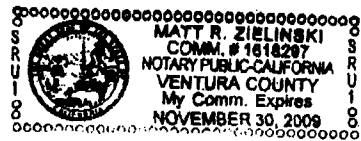
State of California )  
County of Ventura ) ss.

On March 1 2006 (date) before me, Matt D Zielinski  
(name and title "Notary Public"), personally appeared Ravi Ramanathan

(name[s] of signer[s]), personally known to me (or proved to me on the basis of  
satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within  
instrument and acknowledged to me that he/~~she~~/they executed the same in his/her/their  
authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Matt Zielinski  
(Signature of Notary)



(Seal of Notary)

**ASSIGNMENT**


For value received, the receipt of which is hereby acknowledged, the following inventor, **QIULIANG LUO**, (the "ASSIGNOR") hereby assigns, transfers and sets over to **SKYWORKS SOLUTIONS, INC.**, having a place of business at 5221 California Avenue, Irvine California 92612, (the "ASSIGNEE"), the entire worldwide right, title and interest in and to the invention known as: **GAAS INTEGRATED CIRCUIT DEVICE AND METHOD OF ATTACHING SAME**, for which a United States Patent Application was filed on \_\_\_\_\_, Serial No. \_\_\_\_/\_\_\_\_\_, and all rights and privileges under any Letters Patent which may be granted thereon.

1. The ASSIGNOR agrees without charge to said ASSIGNEE to (a) execute (i) all necessary papers to be used in connection with this application and any additional necessary or expedient documents, (ii) all papers in connection with any interference or other legal or quasi-legal proceedings relating to this application or any additional, continuing, or divisional application thereof, (iii) all papers and documents which may be necessary in connection with the preparation and filing of any foreign applications or with making claims to priority rights granted under the provisions of the International Convention for Protection of Industrial Property, Patent Cooperation Treaty, or similar agreements; and (b) to cooperate with ASSIGNEE in obtaining evidence and going forward in any proceeding in connection with this application. The ASSIGNOR agrees for a reasonable charge to said ASSIGNEE to perform all other affirmative acts that may be necessary or desirable to obtain a grant of a valid patent for said invention in any country throughout the world.

2. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials in any other country, to issue any and all Letters Patent that may be granted upon said patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.

3. ASSIGNOR hereby covenants and warrants that it has full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

4. ASSIGNOR hereby grants to William J. Kolegraff, of Jamul, California, authority and power to insert on this instrument any further identification that may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

  
\_\_\_\_\_  
Assignor Signature

3/1/06  
\_\_\_\_\_  
Date

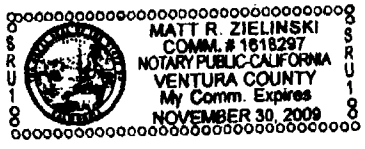
State of California )  
County of Ventura ) ss.

On March 1 2006 (date) before me, Mat D Zielinski  
(name and title "Notary Public"), personally appeared Qiuliang Luo

(name[s] of signer[s]), personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Mat D Zielinski  
(Signature of Notary)



(Seal of Notary)

**ASSIGNMENT**

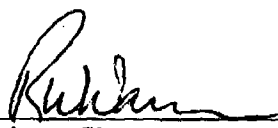
For value received, the receipt of which is hereby acknowledged, the following inventor, **ROBERT W WARREN**, (the "ASSIGNOR") hereby assigns, transfers and sets over to **SKYWORKS SOLUTIONS, INC.**, having a place of business at 5221 California Avenue, Irvine California 92612, (the "ASSIGNEE"), the entire worldwide right, title and interest in and to the invention known as: **GAAS INTEGRATED CIRCUIT DEVICE AND METHOD OF ATTACHING SAME**, for which a United States Patent Application was filed on \_\_\_\_\_, Serial No. \_\_\_\_\_/\_\_\_\_\_, and all rights and privileges under any Letters Patent which may be granted thereon.

1. The ASSIGNOR agrees without charge to said ASSIGNEE to (a) execute (i) all necessary papers to be used in connection with this application and any additional necessary or expedient documents, (ii) all papers in connection with any interference or other legal or quasi-legal proceedings relating to this application or any additional, continuing, or divisional application thereof, (iii) all papers and documents which may be necessary in connection with the preparation and filing of any foreign applications or with making claims to priority rights granted under the provisions of the International Convention for Protection of Industrial Property, Patent Cooperation Treaty, or similar agreements; and (b) to cooperate with ASSIGNEE in obtaining evidence and going forward in any proceeding in connection with this application. The ASSIGNOR agrees for a reasonable charge to said ASSIGNEE to perform all other affirmative acts that may be necessary or desirable to obtain a grant of a valid patent for said invention in any country throughout the world.

2. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials in any other country, to issue any and all Letters Patent that may be granted upon said patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.

3. ASSIGNOR hereby covenants and warrants that it has full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

4. ASSIGNOR hereby grants to William J. Kolegraff, of Jamul, California, authority and power to insert on this instrument any further identification that may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

  
\_\_\_\_\_  
Assignor Signature

*March 3, 2006*  
\_\_\_\_\_  
Date



State of California )  
County of ORANGE ) ss.

On MARCH 3, 2006 (date) before me, Sharley Torri, Notary

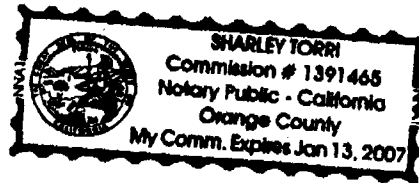
(name and title "Notary Public"), personally appeared \_\_\_\_\_  
ROBERT W. WARREN

(name[s] of signer[s]), personally known to me (~~or proved to me on the basis of~~  
satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within  
instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Sharley Torri  
(Signature of Notary)

(Seal of Notary)



**ASSIGNMENT**

For value received, the receipt of which is hereby acknowledged, the following inventor, **USAMA K ABDALI**, (the "ASSIGNOR") hereby assigns, transfers and sets over to **SKYWORKS SOLUTIONS, INC.**, having a place of business at 5221 California Avenue, Irvine California 92612, (the "ASSIGNEE"), the entire worldwide right, title and interest in and to the invention known as: **GAAS INTEGRATED CIRCUIT DEVICE AND METHOD OF ATTACHING SAME**, for which a United States Patent Application was filed on \_\_\_\_\_, Serial No. \_\_\_\_\_/\_\_\_\_\_, and all rights and privileges under any Letters Patent which may be granted thereon.

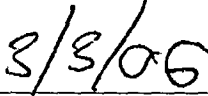
1. The ASSIGNOR agrees without charge to said ASSIGNEE to (a) execute (i) all necessary papers to be used in connection with this application and any additional necessary or expedient documents, (ii) all papers in connection with any interference or other legal or quasi-legal proceedings relating to this application or any additional, continuing, or divisional application thereof, (iii) all papers and documents which may be necessary in connection with the preparation and filing of any foreign applications or with making claims to priority rights granted under the provisions of the International Convention for Protection of Industrial Property, Patent Cooperation Treaty, or similar agreements; and (b) to cooperate with ASSIGNEE in obtaining evidence and going forward in any proceeding in connection with this application. The ASSIGNOR agrees for a reasonable charge to said ASSIGNEE to perform all other affirmative acts that may be necessary or desirable to obtain a grant of a valid patent for said invention in any country throughout the world.

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4. ASSIGNOR hereby grants to William J. Kolegraff, of Jamul, California, authority and power to insert on this instrument any further identification that may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

  
\_\_\_\_\_  
Assignor Signature

  
\_\_\_\_\_  
Date

State of California )  
County of ORANGE ) ss.

On MARCH 3, 2006 (date) before me, SHARLEY TORRI  
(name and title "Notary Public"), personally appeared USAMA K.  
ABDALI

(name[s] of signer[s]), personally known to me (or proved to me on the basis of  
satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within  
instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Sharley Torri  
(Signature of Notary)

(Seal of Notary)

