

Form PTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 6/30/2008)U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**Thomas A. Knecht  
Robert Jacobson  
Glen ReeserAdditional name(s) of conveying party(ies) attached?  Yes  No**2. Name and address of receiving party(ies)**Name: CTS Corporation

Internal Address: \_\_\_\_\_

Street Address: 905 West Boulevard NorthCity: ElkhartState: IndianaCountry: U.S.A. Zip: 46514Additional name(s) & address(es) attached?  Yes  No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) 3/13/07

- Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

**4. Application or patent number(s):** This document is being filed together with a new application.

A. Patent Application No.(s)

11/598,491

B. Patent No.(s)

Additional numbers attached?  Yes  No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Joan C. Ramm

Internal Address: \_\_\_\_\_

Street Address: CTS Corporation171 Covington DriveCity: BloomingtonState: Illinois Zip: 60108Phone Number: (630) 924-3792Fax Number: (630) 295-6601

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved:** One (1)**7. Total fee (37 CFR 1.21(h) & 3.41) \$** 40.00

- Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

**8. Payment Information**a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_b. Deposit Account Number 03-1677Authorized User Name Joan C. Ramm**9. Signature:**Joan C. Ramm  
Signature3/16/2007

Date

Joan C. Ramm  
Name of Person SigningTotal number of pages including cover sheet, attachments, and documents: **6**Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 031677 11598491

**ASSIGNMENT**

WHEREAS, I, Thomas A. Knecht, of the Village of Dundee, Kane County, Illinois, have made a certain new and useful invention entitled "COAXIAL RESONATOR BASED VOLTAGE CONTROLLED OSCILLATOR/PHASED LOCKED LOOP SYNTHESIZER MODULE"; and

WHEREAS, CTS CORPORATION, a corporation duly organized under the laws of the State of Indiana and doing business in the City of Elkhart, the County of Elkhart and the State of Indiana, is desirous of acquiring the full and exclusive right, title and interest which I have or may have in and to the invention and the application, including any continuation and any division of the application, and any Letters Patent of the United States and of foreign countries that may be granted for the invention, and any renewal, any reissue and any extension of any such Letters Patent;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that for good and valuable consideration, I do hereby assign to CTS CORPORATION all the right, title and interest which I have or may have in and to the invention and the application and any Letters Patent of the United States and of foreign countries that may be granted for the invention and any renewal, any reissue and any extension of any such Letters Patent; the same to be held and enjoyed by CTS CORPORATION, its successors, legal representatives and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment had not been made; and I hereby covenant and warrant that I have not executed and will not execute any instrument purporting to convey, mortgage, lease or otherwise transfer all, or any part of the interest, to anyone other than CTS CORPORATION, its successors, legal representatives and assigns.

And, for the above consideration, I hereby covenant and agree that I will, at the request of CTS CORPORATION, its successors, legal representatives and assigns, execute any and all renewal, continuation and divisional applications, both United States and foreign, for Letters Patent for the invention; and any and all applications for the renewal, the reissue and the extension of any Letters Patent, both United States and foreign, that may be granted for the invention and do any and all other and further acts to obtain any such Letters Patent, and any renewal, any reissue and any extension of the same that CTS CORPORATION, its successors, legal representatives and assigns may deem necessary or expedient, without further compensation, but at the expense of CTS CORPORATION, its successors, legal representatives and assigns.

Dated: 3/13/07

Thomas A. Knecht  
Thomas A. Knecht

STATE OF ILLINOIS            )  
  ) SS  
COUNTY OF DUPAGE         )

I, Joan C. Ramm, Notary Public in and for said County, in the United States, do hereby certify that Thomas A. Knecht, personally known to me to be the same person whose name is subscribed to in the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered such instrument as his free and voluntary act for the uses and purposes set forth.

GIVEN under my hand and Notarial Seal this 13th day of March, 2007.

Joan C. Ramm  
NOTARY PUBLIC

(NOTARIAL SEAL)



**ASSIGNMENT**

WHEREAS, I, Robert A. Jacobson, of the Village of Orland Park, County of Cook, in the State of Illinois, have made a certain new and useful invention entitled "COAXIAL RESONATOR BASED VOLTAGE CONTROLLED OSCILLATOR/PHASED LOCKED LOOP SYNTHESIZER MODULE"; and

WHEREAS, CTS CORPORATION, a corporation duly organized under the laws of the State of Indiana and doing business in the City of Elkhart, the County of Elkhart and the State of Indiana, is desirous of acquiring the full and exclusive right, title and interest which I have or may have in and to the invention and the application, including any continuation and any division of the application, and any Letters Patent of the United States and of foreign countries that may be granted for the invention, and any renewal, any reissue and any extension of any such Letters Patent;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that for good and valuable consideration, I do hereby assign to CTS CORPORATION all the right, title and interest which I have or may have in and to the invention and the application and any Letters Patent of the United States and of foreign countries that may be granted for the invention and any renewal, any reissue and any extension of any such Letters Patent; the same to be held and enjoyed by CTS CORPORATION, its successors, legal representatives and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment had not been made; and I hereby covenant and warrant that I have not executed and will not execute any instrument purporting to convey, mortgage, lease or otherwise transfer all, or any part of the interest, to anyone other than CTS CORPORATION, its successors, legal representatives and assigns.

And, for the above consideration, I hereby covenant and agree that I will, at the request of CTS CORPORATION, its successors, legal representatives and assigns, execute any and all renewal, continuation and divisional applications, both United States and foreign, for Letters Patent for the invention; and any and all applications for the renewal, the reissue and the extension of any Letters Patent, both United States and foreign, that may be granted for the invention and do any and all other and further acts to obtain any such Letters Patent, and any renewal, any reissue and any extension of the same that CTS CORPORATION, its successors, legal representatives and assigns may deem necessary or expedient, without further compensation, but at the expense of CTS CORPORATION, its successors, legal representatives and assigns.

Dated: 03/13/07

  
Robert A. Jacobson

STATE OF ILLINOIS            )  
  ) SS  
COUNTY OF DUPAGE         )

I, Joan C. Ramm, Notary Public in and for said County, in the State aforesaid, do hereby certify that Robert A. Jacobson, personally known to me to be the same person whose name is subscribed to in the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered such instrument as his free and voluntary act for the uses and purposes set forth.

GIVEN under my hand and Notarial Seal this 13th day of March, 2007.

  
NOTARY PUBLIC

(NOTARIAL SEAL)



**ASSIGNMENT**

WHEREAS, I, Glen Reeser, of the Village of Palatine, Cook County, Illinois, have made a certain new and useful invention entitled "COAXIAL RESONATOR BASED VOLTAGE CONTROLLED OSCILLATOR/PHASED LOCKED LOOP SYNTHESIZER MODULE"; and

WHEREAS, CTS CORPORATION, a corporation duly organized under the laws of the State of Indiana and doing business in the City of Elkhart, the County of Elkhart and the State of Indiana, is desirous of acquiring the full and exclusive right, title and interest which I have or may have in and to the invention and the application, including any continuation and any division of the application, and any Letters Patent of the United States and of foreign countries that may be granted for the invention, and any renewal, any reissue and any extension of any such Letters Patent;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that for good and valuable consideration, I do hereby assign to CTS CORPORATION all the right, title and interest which I have or may have in and to the invention and the application and any Letters Patent of the United States and of foreign countries that may be granted for the invention and any renewal, any reissue and any extension of any such Letters Patent; the same to be held and enjoyed by CTS CORPORATION, its successors, legal representatives and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment had not been made; and I hereby covenant and warrant that I have not executed and will not execute any instrument purporting to convey, mortgage, lease or otherwise transfer all, or any part of the interest, to anyone other than CTS CORPORATION, its successors, legal representatives and assigns.

And, for the above consideration, I hereby covenant and agree that I will, at the request of CTS CORPORATION, its successors, legal representatives and assigns, execute any and all renewal, continuation and divisional applications, both United States and foreign, for Letters Patent for the invention; and any and all applications for the renewal, the reissue and the extension of any Letters Patent, both United States and foreign, that may be granted for the invention and do any and all other and further acts to obtain any such Letters Patent, and any renewal, any reissue and any extension of the same that CTS CORPORATION, its successors, legal representatives and assigns may deem necessary or expedient, without further compensation, but at the expense of CTS CORPORATION, its successors, legal representatives and assigns.

Dated: 3/13/07

Glen Reeser  
Glen Reeser

STATE OF ILLINOIS            )  
  ) SS  
COUNTY OF DUPAGE         )

I, Joan C. Ramm, Notary Public in and for said County, in the United States, do hereby certify that Glen Reeser, personally known to me to be the same person whose name is subscribed to in the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered such instrument as his free and voluntary act for the uses and purposes set forth.

GIVEN under my hand and Notarial Seal this 13th day of March, 2007.

Joan C. Ramm  
NOTARY PUBLIC

(NOTARIAL SEAL)

