

04-18-2002



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Form PTO-1595

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

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

1. Name of conveying party(ies):

Reddy Vangala
Glenn Rice

4-1-02

2. Name and address of receiving party(ies)

Name: CTS Corporation

Internal Address: _____

Street Address: _____

905 West Boulevard N.

City: Elkhart State: IN Zip: 48514

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

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other _____

Execution Date: March 19, 2002

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

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:

A. Patent Application No.(s)

10/076,053

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Steven Weseman

Internal Address: _____

CTS Wireless Components, Inc.

Street Address: _____

171 Covington Drive

Bloomington

City: State: IL Zip: 60108

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:

03-1677

(Attach duplicate copy of this page if paying by deposit account)

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.

Joan C. Ramm

Name of Person Signing

Joan C. Ramm

Signature

3/21/02

Date

Total number of pages including cover sheet, attachments, and documents: 3

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

04/17/2002 LHWELLER 00000042 031677

10076053

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40.00 CH

PATENT
REEL: 012793 FRAME: 0265

ASSIGNMENT

WHEREAS, I, Reddy Vangala of the City of Albuquerque, County of Bernalillo, in the State of New Mexico, have made a certain new and useful invention entitled "REDUCED LENGTH METALLIZED CERAMIC DUPLEXER," including the subject matter described and claimed in the application for Letters Patent of the United States duly executed by the undersigned concurrently herewith.

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.

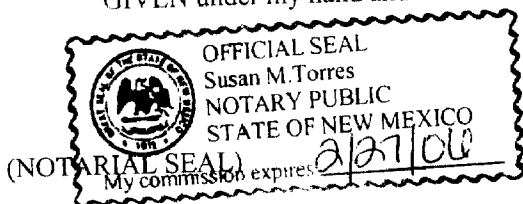
Dated: 3/19/02

Reddy Vangala
Reddy Vangala

STATE OF NEW MEXICO)
) SS
COUNTY OF BERNALILLO)

I, Susan M. Torres, Notary Public in and for said County, in the State aforesaid, do hereby certify that Reddy Vangala, 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 19 day of March, 2002.



Susan M. Torres
NOTARY PUBLIC

ASSIGNMENT

WHEREAS, I, Glenn Rice of the City of Albuquerque, County of Bernalillo, in the State of New Mexico, have made a certain new and useful invention entitled "REDUCED LENGTH METALLIZED CERAMIC DUPLEXER," including the subject matter described and claimed in the application for Letters Patent of the United States duly executed by the undersigned concurrently herewith.

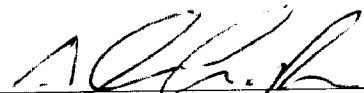
WHEREAS, CTS CORPORATION, a corporation duly organized under the laws of the State of Indiana and doing business in the City of Elkhart, the County of Elkhart and the State of Indiana, is desirous of acquiring the full and exclusive right, title and interest which I have or may have in and to the invention 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.

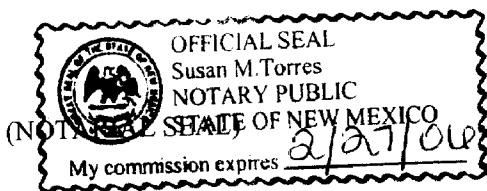
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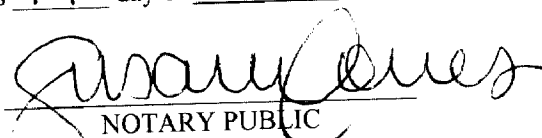

Glenn Rice

STATE OF NEW MEXICO)
) SS
COUNTY OF BERNALILLO)

I, Susan Torres, Notary Public in and for said County, in the State aforesaid, do hereby certify that Glenn Rice, 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 19 day of march, 2002.




NOTARY PUBLIC