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

1. Name of conveying party(ies):
Terry R. Bloom

7-31-03
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: CTS Corporation
Internal Address: Vickie Newman

Street Address: 905 West Boulevard North

City: Elkhart State: In Zip: 46514
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: July 14, 2003

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: 07/31/2003
A. Patent Application No.(s)
B. Patent No.(s) 10/631569
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: CTS Corporation
Internal Address: Vickie Newman

Street Address: 905 West Boulevard North

City: Elkhart State: In Zip: 46514

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)

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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.
Mark P. Bourgeois
Name of Person Signing

Signature

07/31/2003
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

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10/631569
07/31/03

PATENT
REEL: 014366 FRAME: 0655

ASSIGNMENT

WHEREAS, I, Terry R. Bloom of the City of Middlebury, County of Elkhart, in the State of Indiana; have made a certain new and useful invention entitled "Ball Grid Array Package" including the subject matter described and claimed in the application for Letters Patent of the United States duly executed by the undersigned concurrently herewith on the 14th day of July, 2003.

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 said invention and said application, including any continuation and any division of said application, and any Letters Patent of the United States and of foreign countries that may be granted for said 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, transfer and set over unto the said CTS CORPORATION all the right, title and interest which I have or may have in and to said invention and said application and any Letters Patent of the United States and of foreign countries that may be granted for said invention and any renewal, any reissue and any extension of any such Letters Patent; the same to be held and enjoyed by said 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 said interest, to anyone other than said CTS CORPORATION, its successors, legal representatives and assigns.

I authorize and request the Commissioner of Patents of the United States to issue any Letters Patent which may be granted upon the aforesaid application or applications to CTS CORPORATION.

And, for the above consideration, I hereby covenant and agree that I will, at the request of said 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 said 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 said 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 said CTS CORPORATION, its successors, legal representatives and assigns may deem necessary or expedient, without further compensation, but at the expense of said CTS CORPORATION, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 14 day of July, 2003.

Terry R. Bloom
Terry R. Bloom

STATE OF INDIANA)
)SS
COUNTY OF ELKHART)

I, LINDA L. ANGLEMYER, Notary Public in and for said County, in the State aforesaid, do hereby certify that Terry R. Bloom 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 14th day of July, 2003.

Linda L. Anglemyer
Notary Public

(NOTARIAL SEAL)

LINDA L ANGLEMYER
NOTARY PUBLIC STATE OF INDIANA
ELKHART COUNTY
MY COMMISSION EXP. NOV. 16, 2006