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TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS: Please record the attached original documents or copy thereof.

Submission Type <input checked="" type="checkbox"/> New <input type="checkbox"/> Resubmission (Non-Recordation)-Document ID# _____ <input type="checkbox"/> Correction of PTO Error - Reel # _____ Frame # _____ <input type="checkbox"/> Corrective Document - Reel # _____ Frame # _____	Conveyance Type <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: <u>July 23, 2003 and July 31, 2003</u>
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Conveying Party(ies) Russell L. Machado; Aurelio J. Gutierrez; and Dallas A. Dean Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Receiving Party(ies) Name: Pulse Engineering, Inc. Street Address: 12220 World Trade Drive City: San Diego State: CA ZIP: 92128 Additional name(s) of receiving party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Application Number(s) or Patent Number(s) <input type="checkbox"/> Application filed herewith <input checked="" type="checkbox"/> Patent Application No(s): 10/417,743 filed April 16, 2003 <input type="checkbox"/> Patent No(s): _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2003 AUG 18 AM 8:01 OPR/FINANCE
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Correspondent Name and Address Name: Robert F. Gazdzinski, Esq. Internal Address: GAZDZINSKI & ASSOCIATES Street Address: 11440 West Bernardo Court, Suite 375 City: San Diego State: CA ZIP: 92127 Telephone: (858) 675-1670	Fee Amount (37 CFR 3.41): \$40.00 <input checked="" type="checkbox"/> Please charge our Deposit Account No. 501423 for additional fees which may be required or credit our account for any overpayment. (A copy of this page is attached for this purpose).
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Number of Properties Enter the total number of properties involved: (1)

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. Charges to deposit account are authorized, as indicated herein.

Robert F. Gazdzinski
 Name of Person Signing

Robert F. Gazdzinski; Reg. No. 39,990

8/15/03
 Date

Pages Enter the total number of pages of the conveyance document including any attachments: (3)

Mail documents to be recorded with required cover sheet information to:

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PATENT REEL: 014392 FRAME: 0661

ASSIGNMENT

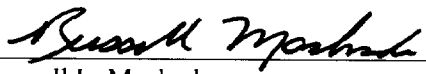
WHEREAS, We, Russell L. Machado, a United States citizen, residing at 11438 Alborada Drive, San Diego, California 92127, United States; Aurelio J. Gutierrez, a United States citizen, residing at 5420 Robinwood Street, Bonita, California 91902; United States; and Dallas A. Dean, a United States citizen, residing at 3721 Via Las Villas, Oceanside, California 92056, United States, have invented certain new and useful improvements in a **SHIELDED CONNECTOR ASSEMBLY AND METHOD OF MANUFACTURING** for which we have filed an application for Letters Patent in the United States, Application No. 10/417,743, filed April 16, 2003, which claims priority to provisional patent Application No. 60/373,126, filed April 16, 2002;

AND WHEREAS, PULSE ENGINEERING (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 12220 World Trade Drive, San Diego, California 92128, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 23 day of JULY 2003.



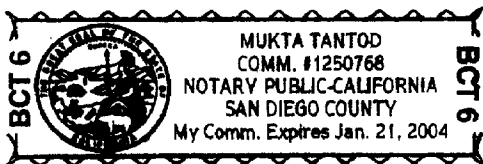
Russell L. Machado

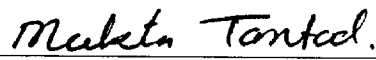
STATE OF CALifornia] ss.
]]]
COUNTY OF San Diego

On July 23 2003, before me, Mukta Tantod, personally appeared Russell L. Machado ~~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 executed the same in his authorized capacity(ies), and that by his 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.

[SEAL]





Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 23 day of JULY 2003.

Aurelio J. Gutierrez
Aurelio J. Gutierrez

STATE OF CALiFornia }
COUNTY OF San Diego } ss.

On July 23 2003, before me, Mukta Tantod, personally appeared Aurelio J. Gutierrez ~~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 executed the same in his authorized capacity(ies), and that by his 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.

[SEAL]



Mukta Tantod.
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 31 day of July 2003.

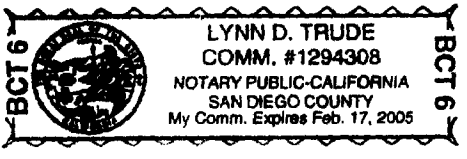
Dallas A. Dean
Dallas A. Dean

STATE OF California }
COUNTY OF San Diego } ss.

On July 31 2003, before me, Lynn D Trude, Notary Public, personally appeared Dallas A. Dean ~~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 executed the same in his authorized capacity(ies), and that by his 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.

[SEAL]



Lynn D Trude
Notary Signature