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To the Honorable Commissioner of F.

101139424

Attached original documents or copy thereof.

1. Name of conveying party(ies):
Thomas R. Giallorenzi, Samuel C. Kingston,
Lee A. Butterfield, William T. Ralston,
Leon L. Nieczyporowicz

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

2. Name and address of receiving party(ies)
Name: L-3 Communications Corporation

Internal Address: _____

Street Address: 600 Third Avenue

City: New York State: NY ZIP: 10016

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

3. Nature of conveyance:

9.799

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: 8/31/99, 7/1/99, 8/31/99, 9/1/99,
8/27/99, 8/27/99 respectively

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)
09/329,473 filed 6/10/99

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Clarence A. Green, Esq.

Internal Address: Perman & Green, LLP

Street Address: 425 Post Road

City: Fairfield State: CT ZIP: 06430

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:

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

(09/01/1999 DNGUYEN 00000316 09329473
01 FC:581 40.00 DP)

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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.

Clarence A. Green
Name of Person Signing

Signature

9/3/99
Date

Total number of pages including cover sheet, attachments, and document: 4

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

For: U.S. and/or Foreign Rights
 For: U.S. Application or
 U.S. Provisional Application
 For: U.S. Patent
 For: PCT Application
 By: Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS (Inventors):

<i>(type or print name of inventors)</i>	Address	Nationality
Thomas R. Giallorenzi	7794 W. Mt. Top Road Herriman, UT 84065	USA
Samuel C. Kingston	²¹⁴⁰⁻²¹⁸⁰ _{scit} Keller Lane Salt Lake City, UT 84109	USA
Lee A. Butterfield	3093 W. Green Acre Drive W. Jordan, UT 84088	USA
William T. Ralston	14588 South Majestic Oaks Lane Riverton, UT 84065	USA
Leon L. Nieczyporowicz	8765 South 4830 West West Jordan, UT 84088	USA
Alan E. Lundquist	2480 Chadwick Street Salt Lake City, UT 84106	USA

hereby sells, assigns and transfers to

ASSIGNEE:

L-3 Communications Corporation	600 Third Avenue
<i>(type or print name of ASSIGNEE)</i>	Address
	New York, NY 10016
Nationality	

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- the entire right, title and interest
- an undivided _____ percent (____ %) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

- and in all foreign countries, including all rights to claim priority

in and to any and all improvements which are disclosed in the invention entitled:

Non-Recursively Generated Orthogonal PN Codes For Variable Rate CDMA

(check and complete (a), (b), (c), (d), (e), (f), or (g))

and which is found in

- (a) U.S. patent application executed on even date herewith
- (b) U.S. patent application executed on _____
- (c) U.S. provisional application naming the above inventor(s) for the above-entitled invention
 - Express mail label no.: _____
Mailed: _____
 - To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) U.S. application no. 09 / 329,473 filed on 6/10/99
- (e) International application no. PCT / _____ / _____
filed on _____
- (f) U.S. patent no. _____ issued _____
 - A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(check (g), if foreign application(s) is also being assigned)

- (g) and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this _____
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

(type name of inventor)

Thomas R. Giallorenzi

Samuel C. Kingston

Lee A. Butterfield

William T. Ralston

Leon L. Nieczyporowicz

Alan E. Lundquist

Signature of INVENTOR

Thomas R. Giallorenzi - 8/31/99

Samuel Kingston 7/6/99

Lee A. Butterfield 3/3/99

William T. Ralston 9/1/99

Leon L. Nieczyporowicz 08/27/99

Alan E. Lundquist 8/27/99

Notarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

(Assignment of Invention—Multiple Inventors [16-3.2]—page 3 of 3)