

04-23-2001

U.S. DEPARTMENT OF COMMERCE
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RECORDATION FORM COVER SHEET
PATENTS ONLY

demarks. Please record the attached original documents or copy thereof.

101682205

1. Name and address of conveying party(ies):
Dean Paschen Paul Burlingame
Dan Becker
Gary Rait
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: Ball Aerospace & Technologies Corp.
Internal Address:
Street Address: 1600 Commerce Street
City: Boulder State: Colorado ZIP: 80301
4-9-01
Additional name(s) & address(es) attached: ? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other:
Execution Date: January 3 and 5, 2000

4. Application number(s) or patent number(s).
A. Patent Application No(s).
09/430,051
B. Patent No(s).
If this document is being filed together with a new application, the execution date of the application is:
Additional numbers attached? Yes No

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41): \$40.00
 Enclosed Charge fee to deposit account
 Charge any additional fees associated with this paper, or credit any overpayment, to deposit account.
8. Deposit Account No.: 19-1970

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Bradley M. Knepper
Sheridan Ross P.C.
Suite 1200
1560 Broadway
Denver, CO 80202-5141

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.
Bradley M. Knepper
Name of Person Signing

Signature
Reg. No. 44,189
4/6/2001
Date
Total number of pages including cover sheet, attachments and document: 5

10. Change Correspondence Address to that of Part 5? ? Yes No
OMB No. 0651-0011 (exp. 4/94)

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks
Box Assignments
Washington, DC 20231

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO COMMISSIONER FOR PATENTS AND TRADEMARKS, BOX ASSIGNMENTS, WASHINGTON, DC 20231 ON April 4, 2001
SHERIDAN ROSS P.C.
BY:

ASSIGNMENT


WHEREAS, we, Dean Paschen of 729 Paschal Dr., Lafayette, Colorado 80026, Dan Becker of 1166 Eagle Road, Broomfield, Colorado 80020, and Gary Rait of 275 Kiowa Place, Boulder, Colorado 80303, together with Paul Burlingame of 8558 Villa La Jolla Drive, Apt. 266, La Jolla, CA 92037, have invented a certain new and useful invention entitled "METHOD AND APPARATUS FOR CARRYING SIGNALS HAVING DIFFERENT FREQUENCIES IN A SPACE-DEPLOYED ANTENNA SYSTEM", for which an application for Letters Patent of the United States has been prepared for filing, said application being identified as Attorney File No. 1604-317;

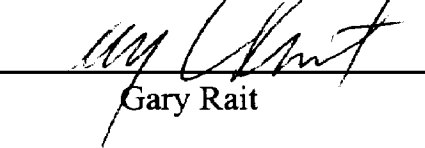
NOW THEREFORE, be it known that we, the said inventors, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Ball Aerospace & Technologies Corp., a Delaware corporation having a place of business at 1600 Commerce Street, Boulder, Colorado 80301, its successors, legal representatives and assigns, the aforesaid application for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty, and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country; we also assign any right, title or interest in and to the invention which has not already been transferred to the assignee; we warrant that we have made no assignment of the invention, application or patent therefor to a party other than Ball Aerospace & Technologies Corp. and we are under no obligation to make any assignment of the invention, application, or patent therefor to any other party; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention, but at the expense of said assignee.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment, to Ball Aerospace & Technologies Corp., its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the date indicated hereunder.

Date: 1-11-00 By: 
Dean Paschen

Date: 1-25-00 By: 
Dan Becker

Date: 1-7-00 By: 
Gary Rait

STATE OF Colorado)
) ss.
COUNTY OF Jefferson)

Before me, a Notary Public in and for said County and State, personally appeared Dean Paschen, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 11 day of Jan, ~~19~~2000

Nancy L Miller
Notary Public

My Commission Expires: 16 May 2003

STATE OF Colorado)
) ss.
COUNTY OF Jefferson)

Before me, a Notary Public in and for said County and State, personally appeared Dan Becker, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 25 day of Jan, ~~19~~2000

Nancy L Miller
Notary Public

My Commission Expires: 16 May 2003

STATE OF *Colorado*)
) ss.
COUNTY OF *Jefferson*)

Before me, a Notary Public in and for said County and State, personally appeared Gary Rait, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 7 day of Jan, ~~19~~²⁰⁰⁰.

(ms)
Nancy L. Miller
Notary Public

My Commission Expires: *16 May 2003*

ASSIGNMENT

WHEREAS, I, Paul Burlingame of 8558 Villa La Jolla Drive, Apt. 266, La Jolla, California 92037, together with Dean Paschen of 729 Paschal Dr., Lafayette, Colorado 80026, Dan Becker of 1166 Eagle Road, Broomfield, Colorado 80020 and Gary Rait of 275 Kiowa Place, Boulder, Colorado 80303, have invented a certain new and useful invention entitled "METHOD AND APPARATUS FOR CARRYING SIGNALS HAVING DIFFERENT FREQUENCIES IN A SPACE-DEPLOYED ANTENNA SYSTEM" for which an application for Letters Patent of the United States has been prepared and filed on October 29, 1999, receiving Serial No. 09/430,051, and further identified as Attorney File No. 1604-317;

NOW THEREFORE, be it known that I, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Ball Aerospace & Technologies Corp., a Delaware corporation having a place of business at 1600 Commerce Street, Boulder, Colorado 80301, its successors, legal representatives and assigns, the aforesaid application for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country; I also assign any right, title or interest in and to the invention which has not already been transferred to the assignee; I warrant that I have made no assignment of the invention, application or patent therefor to a party other than Ball Aerospace & Technologies Corp. and I am under no obligation to make any assignment of the invention, application, or patent therefor to any other party; and I further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention, but at the expense of said assignee.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment, to Ball Aerospace & Technologies Corp., its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, the party hereto has executed this Assignment as of the date indicated hereunder.

Date: 3/23/01

By: Paul Burlingame
Paul Burlingame

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

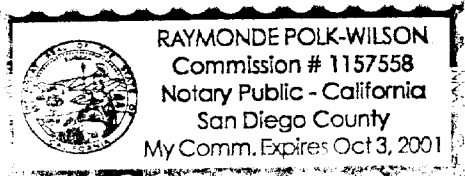
State of California

County of San Diego

On 3/23/01 before me, Raymonde Polk-Wilson
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Paul Burlingame
Name(s) of Signer(s)

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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their 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.

Raymonde Polk-Wilson
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment

Document Date: 3/23/01 Number of Pages: 1

Signer(s) Other Than Named Above: N/A

Capacity(ies) Claimed by Signer(s)

Signer's Name: Paul Burlingame

- Individual
- Corporate Officer
- Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER

Top of thumb here

Signer Is Representing:

Signer's Name: _____

- Individual
- Corporate Officer
- Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER

Top of thumb here

Signer Is Representing:

