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**COVER SHEET
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U.S. DEPARTMENT OF COMMERCE
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100970322

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

Name of conveying parties: Hui-Jung Wu, James S. Drage, Lisa B. Brungardt, Teresa Ramos, and Douglas M. Smith

2. Name and address of receiving party(ies):

Name: AlliedSignal, Inc.

Internal Address: _____

Street Address: _____

P.O.Box 2245, 101 Columbia Road

City: Morristown State: NJ Zip: 07962

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

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

Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other _____

Execution Date: 2-15-99, 12-4-98,

Application number(s) or patent number(s):

30-4507 (4780)

If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application No.(s)

09/140855 Filed August 27, 1998

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Leslie Weise

Internal Address: AlliedSignal, Inc.

Street Address: _____

P.O. Box 2245, 101 Columbia Road

City: Morristown State: NJ Zip: 07962

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:

01-1125

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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.

Leslie Weise

Name of Person Signing

Leslie Weise

Signature

02-15-99

Date

Total number of pages including cover sheet, attachments, and document: 5

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

**PATENT
REEL: 9771 FRAME: 0916**

ASSIGNMENT

Assignment before issue of Letters Patent

Allied File 30-4507(4780)

WHEREAS, HUI-JUNG WU, JAMES S. DRAGE, LISA BETH BRUNGARDT, TERESA RAMOS and DOUGLAS M. SMITH

(hereinafter "Assignor") have invented certain new and useful improvements in

NANOPOROUS SILICA VIA COMBINED STREAM DEPOSITION

(hereinafter "invention") for which Assignor is making or has made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignor on the day(s) and date(s) of these presents.

AND WHEREAS, AlliedSignal Inc., a corporation organized and existing under the laws of the State of Delaware, U.S.A., having a place of business at 101 Columbia Road, Morris Township, Morris County, New Jersey, U.S.A., hereinafter called the Assignee, is desirous of acquiring the entire right, title and interest in and to said invention within the United States of America and its territorial possessions and all foreign countries and any United States or foreign LETTERS PATENT that may be granted therefor.

NOW, THIS INDENTURE WITNESSETH, that for good and valuable considerations, the receipt whereof is hereby acknowledged, Assignor has assigned, sold and transferred, and does hereby assign, sell and transfer to the said Assignee the entire right, title and interest in and to the said invention, within the United States of America and its territorial possessions and all foreign countries and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants, and all divisions, reissues, continuations and extensions thereof that may be granted therefor, and the right to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of said U.S. LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America, all said rights to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors or assigns, to the full end of the term for which said LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. And Assignor does hereby request and authorize the Commissioner of Patents and Trademarks, U.S.A., to issue said U.S. LETTERS PATENT, when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered title to the invention hereby assigned, which title Assignor warrants unto the Assignee, and Assignor further agrees that Assignor will, without demanding any further consideration therefor, at the request but at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign LETTERS PATENT or the like for the said invention, and for maintaining and perfecting the Assignee's right to said invention and LETTERS PATENT particularly in cases of interference, conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand this

15th day of February, 19 89
HUI-JUNG WU

IN TESTIMONY WHEREOF, I have hereunto set my hand this

15th day of February, 19 89
JAMES S. DRAGE

IN TESTIMONY WHEREOF I have hereunto set my hand this

14th day of December, 19 88

LISA BETH BRUNGARDT
LISA BETH BRUNGARDT

REEL: 9771 FRAME: 0917

IN TESTIMONY WHEREOF, I have hereunto set my hand this

day of Dec, 1998

TERESA RAMOS

IN TESTIMONY WHEREOF, I have hereunto set my hand this

day of Dec, 1998

DOUGLAS M. SMITH

STATE OF CALIFORNIA

COUNTY OF Santa Clara

) ss:

On this 15 day of Feb, 1999 before me personally appeared

HUI-JUNG WU

to me known and known to me to be the individual _____ described in and who executed the foregoing instrument,
and _____ he _____ acknowledged to me that _____ he _____ executed the same.

[SEAL]



CAROL L. ANDERSON
COMM. # 1118821
NOTARY PUBLIC — CALIFORNIA
COUNTY OF SANTA CLARA
Comm. Exp. Dec. 1, 2000

Carol L. Anderson

Notary Public

My commission expires: 12/01/2000

STATE OF CALIFORNIA

COUNTY OF Santa Clara

) ss.:

On this 15 day of Feb, 1999 before me personally appeared

JAMES S. DRAGE

to me known and known to me to be the individual _____ described in and who executed the foregoing instrument,
and _____ he _____ acknowledged to me that _____ he _____ executed the same.

[SEAL]



CAROL L. ANDERSON
COMM. # 1118821
NOTARY PUBLIC — CALIFORNIA
COUNTY OF SANTA CLARA
Comm. Exp. Dec. 1, 2000

Carol L. Anderson

Notary Public

My commission expires: 12/01/2000

STATE OF New Mexico

COUNTY OF Bernalillo

) ss.:

On this 4 day of Dec, 1998 before me personally appeared

LISA BETH BRUNGARDT

to me known and known to me to be the individual _____ described in and who executed the foregoing instrument,
and _____ he _____ acknowledged to me that _____ he _____ executed the same.



OFFICIAL SEAL
Janita R. Peters
NOTARY PUBLIC - STATE OF NEW MEXICO
My commission expires: 6-8-02

Janita R. Peters

Notary Public

My commission expires: 6-8-02

PATENT

REEL: 9771 FRAME: 0918

STATE OF New Mexico)
COUNTY OF Bernalillo) ss.:

On this 4 day of Dec, 19 98 before me personally appeared

TERESA RAMOS

to me known and known to me to be the individual _____ described in and who executed the foregoing instrument,



and he Juanita R. Peters acknowledged to me that

S he _____ executed the same.

My commission expires: 6-8-02

My commission expires: 6-8-02

Notary Public

STATE OF New Mexico)
COUNTY OF Bernalillo) ss.:

On this 4 day of Dec, 19 98 before me personally appeared

DOUGLAS M. SMITH

to me known and known to me to be the individual _____ described in and who executed the foregoing instrument,



and he Juanita R. Peters acknowledged to me that

he _____ executed the same.

My commission expires: 6-8-02

My commission expires: 6-8-02

Notary Public

Assignment

HUI-JUNG WU
JAMES S. DRAGE
LISA BETH BRUNGARDT
TERESA RAMOS
DOUGLAS M. SMITH

TO
ALLIEDSIGNAL INC.

INVENTION:

NANOPOROUS SILICA VIA
COMBINED STREAM DEPOSITION

Allied File: 30-4507(4780)

AlliedSignal Inc.

PATENT

RECORDED: 02/17/1999

REEL: 9771 FRAME: 0920