

**RECORDATION FORM COVER
PATENTS ONLY**



101005306

TO THE ASSISTANT COMMISSIONER FOR PATENTS: Please record the attached

1. Name of conveying party(ies): (If multiple assignors, list numerically)

Ravinder Aggarwal and Ronald R. Stevens

Additional name(s) of conveying party(ies) attached?

() Yes (X) No

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

Name: ASM AMERICA, INC.

Internal Address:

Street Address: 3440 East University Drive

City: Phoenix State: AZ ZIP: 85034-7200

Additional name(s) of receiving party(ies) attached?

() Yes (X) No

3. Nature of conveyance:

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

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above)

- 1. March 15, 1999
- 2. March 15, 1999

3-26-99

4. Application number(s) or Patent number(s):

Application(s) filed herewith
Execution Date(s): March 15, 1999

Patent Application No.:
Filing Date:

Patent No.:
Issue Date:

Additional numbers attached? () Yes (X) No

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

Name: Gordon H. Olson
KNOBBE, MARTENS, OLSON & BEAR, LLP
Customer No. 20,995

Internal Address: Sixteenth Floor
Street Address: 620 Newport Center Drive
City: Newport Beach State: CA ZIP: 92660
Attorney's Docket No.: ASMEX.189A

7. Total fee (37 CFR 3.41): \$40.00

Enclosed
 Authorized to be charged to deposit account

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 1

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.

Gordon H. Olson
Name of Person Signing

Gordon H. Olson
Signature

3/26/99
Date

20,319
Registration No.

Total number of pages including cover sheet, attachments and document: 3

04/06/1999 JSHADAZI 00000176 09277662

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40-00-00

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

Assistant Commissioner for Patents
Box Assignments
Washington, D.C. 20231

10511 U.S. PTO
09/27/662
03/26/99

ASSIGNMENT

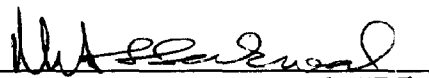
WHEREAS, We, **Ravinder Aggarwal**, an citizen of India, residing at 819 W. Royal Palms Dr., Gilbert, AZ 85233 and **Ronald R. Stevens**, a U.S. citizen, residing at 956 N. 85th St., Scottsdale, AZ 85257 have invented certain new and useful improvements in a **MULTI-STAGE SINGLE-DRIVE FOUP DOOR OPENING SYSTEM** for which we have executed an application for Letters Patent in the United States, on even date herewith;

AND WHEREAS, **ASM America, Inc.** (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 3440 East University Drive, Phoenix, AZ 85034-7200, 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) each to us 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, its 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 15th day of MARCH, 1999

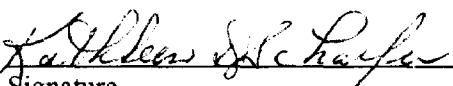

Ravinder Aggarwal

STATE OF Arizona
COUNTY OF Maricopa] ss.

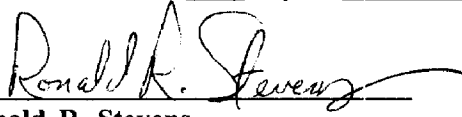
On 2/15/99, before me, Kathleen Schaefer personally appeared **Ravinder Aggarwal** personally known to me (~~or proved to me on the basis of satisfactory evidence~~) to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument, and acknowledged to me that he executed the same 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]


Signature
My Commission 4/11/2000

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 15 day of March, 1999



Ronald R. Stevens

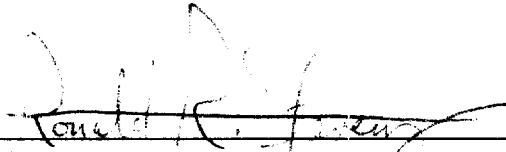
STATE OF Arizona
COUNTY OF Maricopa

]] ss.
]]

On 3/15/99, before me, Kathleen DeLuca personally appeared **Ronald R. Stevens** 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]



Signature
Kathleen DeLuca
My Commission expires 4/15/01

Do not record copy

PATENT

Application No.: Unknown
Filing Date: Herewith

Client Code: ASMEX.189A
Page 1

COPIES
ASSIGNMENT

WHEREAS, We, **Ravinder Aggarwal**, an citizen of India, residing at 819 W. Royal Palms Dr., Gilbert, AZ 85233 and **Ronald R. Stevens**, a U.S. citizen, residing at 956 N. 85th St., Scottsdale, AZ 85257 have invented certain new and useful improvements in a **MULTI-STAGE SINGLE-DRIVE FOUP DOOR OPENING SYSTEM** for which we have executed an application for Letters Patent in the United States, on even date herewith;

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NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) each to us 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, its successors, legal representatives and assigns, any facts known to us respecting ~~the~~ 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 15th day of MARCH, 1999

Ravinder Aggarwal
Ravinder Aggarwal

STATE OF Arizona
COUNTY OF Maricopa] ss.

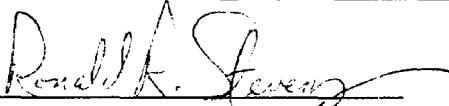
On 3/15/99, before me, [Signature] personally appeared **Ravinder Aggarwal** personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized 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]

[Signature]
Signature
[Signature]

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 15 day of March, 1999



Ronald R. Stevens

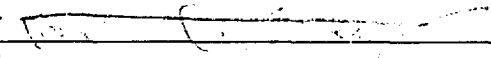
STATE OF Arizona
COUNTY OF Maricopa

⌈
⌋ ss.

On 3/13/99, before me, John H. ... personally appeared **Ronald R. Stevens** 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]



Signature
John H. ...
My Commission expires ...