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10525 U.S. PTO
09/049315
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MPD 3-27-98

1. Name of conveying party(ies): Douglas R. Adams Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: Brooks Automation, Inc. Address: 15 Elizabeth Drive City: Chelmsford State: MA ZIP Code: 01824 Country: U.S.A. Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
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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: <u>3/24/98</u> A. Patent Application No.(s): <u>09/049315</u> B. Patent No.(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Mark F. Harrington Address: Perman & Green, LLP 425 Post Road City: Fairfield State: CT ZIP Code: 06430-6232		6. Total number of applications and/or patents involved: 1 7. Total fee (37 CFR 3.41):\$40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Charge deposit account <input checked="" type="checkbox"/> Please charge any fee deficiency to deposit account	
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9. Statement And Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and, the attached document is either an original document or a true copy of the original document.</i> Mark F. Harrington <u>Mark F. Harrington</u> 3/27/98 Name of Person Signing Signature Date Total number of pages including cover sheet(s): 1 Page 1 of 1.			

For: U.S. and/or Foreign Rights
For: U.S. Application or
 U.S. Provisional Application
For: U.S. Patent
For: PCT Application
By: Inventor(s) or Present Owner

ASSIGNMENT OF INVENTION

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,

ASSIGNOR:

Inventor(s) or person(s) or entity(ies) who own the invention

Douglas R. Adams
(type or print name(s) of ASSIGNOR(S))
5 Blueberry Hill Drive
Address
Pepperell, MA 01463
USA
Nationality

(if assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO, add the following)

Recorded on _____ Reel _____
Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

Brooks Automation, Inc.
(type or print name(s) of ASSIGNEE(S))
15 Elizabeth Drive
Address
Chelmsford, MA 01824
USA
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:

METERED GAS CONTROL IN A SUBSTRATE PROCESSING APPARATUS

Name of inventor(s) Douglas R. Adams

(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. _____ / _____
filed on _____

(e) International application no. PCT/ _____ / _____

(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.

(also 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;

(Assignment of Invention [16-3]—page 2 of 3)

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, I/We have hereunto set hand and seal this 24th day of March, 1998
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.

Date: March 24, 1998


Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person authorized to sign on behalf of ASSIGNOR)

Title

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.

Notarization or Legalization Page Added.

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

NOTARIZATION OR LEGALIZATION ACCOMPANYING ASSIGNMENT

NOTE: Executing this page is not required for assignment, and is only prima facie evidence of execution. 35 USC 261.

Details of Country United States of America
and place of signing of assignment 15 Elizabeth Drive
Chelmsford, MA 01824

Before me this 24th day of March 1998, personally appeared the above named individual(s), to me known to be the person(s) who is are described in, and who executed the foregoing assignment instrument and acknowledged to me that

- | | | |
|--|----------------------|---|
| <input checked="" type="checkbox"/> he | | <input checked="" type="checkbox"/> his |
| <input type="checkbox"/> she | executed the same of | <input type="checkbox"/> her |
| <input type="checkbox"/> they | | <input type="checkbox"/> their |

own free will for the purpose therein expressed.

Rose M. Vallee
Notary Public or Consular Officer of the
United States of America

(Notarization or Legalization Accompanying Assignment [16-4])