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6	PATENT	S ONLY Atty Docket 4447
Õ	To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below.
1.14.06	1. Name of conveying party(ies) Yasuzo Tanaka, Masao Murata, Junpei Yuyama, Hiroshi Koshina, Hiroto Uchida, Koji Hane, Takanori Tsuji, Mitsuru Yahaqi	2. Name and address of receiving party(ies) Name: _ULVAC, Inc. Internal Address:
	Additional name(s) of conveying party(ies) attached? Yes X No	
1	3. Nature of conveyance/Execution Date(s):	Street Address: 2500 Hagisono
	Execution Date(s) 12 June 2006	Chigasaki-shi,
	X Assignment Merger	City: Kanagawa
	Security Agreement Change of Name	
	Joint Research Agreement	State:
	Government Interest Assignment Executive Order 9424, Confirmatory License	Country: Japan Zip:
	Other	Additional name(s) & address(es) attached? Yes X No
		document is being filed together with a new application.
	A. Patent Application No.(s)	B. Patent No.(s)
07/25/200 04 FC:802	t to the state of	10/586064 ached? □Yes ⊠No
	Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
	Name: Floyd B. Carothers	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
	Internal Address: Carothers and Carother	S Authorized to be charged by credit card
	Suite 500	Authorized to be charged to deposit account
	Street Address: 445 Fort Pitt Bld.	EnclosedNone required (government interest not affecting title)
	City: Pittsburgh	8. Payment Information
	State: PA Zip: 15219	a. Credit Card Last 4 Numbers Expiration Date
	Phone Number: (412) 471-3575	•
	Fax Number: (412) 281-2180	b. Deposit Account Number
	Email Address: Pittpatent@aol.com	Authorized User Name
	9. Signature:	July 14, 2006
	Signature	Date
	Floyd B. Carothers Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:

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	By: Inventor(s) or Present Owner
ASSIGNME	ENT OF INVENTION
In consideration of the payment by AS (\$1.00), the receipt of which is hereby ac sideration,	SSIGNEE to ASSIGNOR of the sum of One Dolla knowledged, and for other good and valuable con
ASSIGNOR:	Yasuzo Tanaka
(inventor(s) or person(s) or entity(ies) who own the invention)	(Type or print name(s) of ASSIGNOR(S))
mis smi are interacting	Address
	c/o ULVAC, Inc., 2500 Hagisono, Chigasaki-shi,
	Kanagawa, Japan
	Nationality a citizen of Japan
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hereby sells, assigns and transfers to ASSIGNEE:	ULVAC, Inc.
·	(Type or print name of ASSIGNEE)
	Address
	2500 Hagisono, Chigasaki-shi, Kanagawa, Japan
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	presentatives of the ASSIGNEE

M	the entire right, title and interest
	an undivided percent (%) interest
for the Uni	ted States and its territorial possessions

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

and in all foreign countries

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

SPACER FORMING METHOD AND SPACER FORMING APPARATUS

(Assignment of Invention[16-3]—page 1 of 2)

(check and complete (a), (b), (c) or (d)) and which is found in (a) U.S. patent application executed on even date herewith U.S. patent application executed on _12 June 2006 U.S. application serial no. ____ _ filed on (d) U.S. patent no. _ ___ issued _ (also check (e) if foreign application(s) is also being assigned) 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. WITNESS WHEREOF, I/We have hereunto set hand MAY 7 2. 2006 (Date of signing) $_$ (Date of signing). WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked above. Joseph Tanaka gnature of ASSIGNOR(S) Yasuzo Taraka

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

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

<i>PATENT</i>	
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ASSIGNME	ENT OF INVENTION
In consideration of the payment by AS (\$1.00), the receipt of which is hereby ac sideration,	SSIGNEE to ASSIGNOR of the sum of One Dolla knowledged, and for other good and valuable cor
ASSIGNOR:	Masao Nurata
(inventor(s) or person(s) or entity(ies) who own the invention)	(Type or print name(s) of ASSIGNOR(S))
o a a o	Address
	c/o ULVAC, Inc., 2500 Hagisono, Chigasaki-shi,
	Kanagawa, Japan
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hereby sells, assigns and transfers to ASSIGNEE:	ULVAC, Inc.
· · · · · · · · · · · · · · · · · · ·	(Type or print name of ASSIGNEE)
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and the successors, assigns and legal re	presentatives of the ASSIGNEE
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(Assignment of Invention[16-3]—page 1 of 2)

(check and complete (a), (b), (c) or (d)) and which is found in U.S. patent application executed on even date herewith U.S. patent application executed on 12 June 2006 U.S. application serial no. _____ U.S. patent no. _____ ____ issued __ (also check (e) if foreign application(s) is also being assigned) (e) 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 tes-

tify 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. WITNESS WHEREOF, I/We have (Date of signing) hereunto set hand ___(Date of signing). WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked above. Masao Murata Signature of ASSIGNOR(S) Masao Murata 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.

> PATENT REEL: 018123 FRAME: 0190

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

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ASSIGNME	NT OF INVENTION
In consideration of the payment by AS (\$1.00), the receipt of which is hereby ac sideration,	SSIGNEE to ASSIGNOR of the sum of One Dolla knowledged, and for other good and valuable con
ASSIGNOR:	Junpei Yuyama
(inventor(s) or person(s) or entity(ies) who own the invention)	(Type or print name(s) of ASSIGNOR(S))
,	Address
	c/o ULVAC, Inc., 2500 Hagisono, Chigasaki-shi,
	Kanagawa, Japan
	Nationality a citizen of Japan
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hereby sells, assigns and transfers to ASSIGNEE:	ULVAC, Inc.
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and the successors, assigns and legal rep	presentatives of the ASSIGNEE
(complete	one of the following)
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an undivided perc	ent (%) interest
for the United States and its territorial pos	
	eign rights are also to be assigned)
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SPACER FORMING METHOD AND SPACER FORMING APPARATUS

and in all foreign countries

(Assignment of Invention[16-3]—page 1 of 2)

(check and complete (a), (b), (c) or (d))

anu w	HICH	is iouria iri	
(a)		U.S. patent application executed	on even date herewith
(b)	\boxtimes	U.S. patent application executed	on 12 June 2006
(c)		U.S. application serial no	
(d)		U.S. patent no.	
		(also check (e) if foreign app	lication(s) is also being assigned)
(e)		and any legal equivalent thereof priority	in a foreign country, including the right to claim
or any	or cor		ined for said invention by the above application bstitute thereof, and as to letters patent any re-
			signment, sale, agreement or encumbrance has would conflict with this assignment;
promp Paten tify as promp instru cation	otly vote and state of the control o	with all pertinent facts and documed legal equivalents as may be known the same in any interference, litexecute and deliver to ASSIGNEE ts or affidavits required to apply found invention and said Letters Pater or desirable to carry out the purp	ave hereunto set hand and seal this
WAF	RNING	•	he date of execution of the application if item (a) was checked Junger Gunature of ASSIGNOD(S)
		-	Junpei Yuyama
			•
If AS	SIGN	NOR 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
NO	TE: i	No witnessing, notarization or legalization is only be prima facie evidence of execution 35	necessary. If the assignment is notarized or legalized then it will i USC 261. Use next page if notarization is desired. —

Notarization or Legalization Page Added.

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

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	By: Inventor(s) or Present Owner
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In consideration of the payment by AS \$1.00), the receipt of which is hereby actideration,	SIGNEE to ASSIGNOR of the sum of One Dolla knowledged, and for other good and valuable con
ASSIGNOR:	Hiroshi Koshina
inventor(s) or person(s) or entity(ies)	(Type or print name(s) of ASSIGNOR(S))
who own the invention)	Address
	c/o ULVAC, Inc., 2500 Hagisono, Chigasaki-shi,
	Kanagawa, Japan
	Nationality a citizen of Japan
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(check the following box if fore	ign rights are also to be assigned)
and in all foreign countries	
in and to, any and all improvements which SPACER FORMING METHOD AN	are disclosed in the invention entitled:

(Assignment of Invention[16-3]—page 1 of 2)

(check and complete (a), (b), (c) or (d))

and w	vhich	is found in
(a)		U.S. patent application executed on even date herewith
(b)	\boxtimes	U.S. patent application executed on 12 June 2006
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		(also check (e) if foreign application(s) is also being assigned)
(e)		and any legal equivalent thereof in a foreign country, including the right to claim priority
or an	y cor	d to, all Letters Patent to be obtained for said invention by the above application ntinuation, division, renewal, or substitute thereof, and as to letters patent any re-examination thereof
AS been	SIGN or wi	IOR hereby covenants that no assignment, sale, agreement or encumbrance has ill be made or entered into which would conflict with this assignment;
prom Pater tify a prom instru cation	ptly vant and some to the ptly endinger to the ptly end to the	IOR further covenants that ASSIGNEE will, upon its request, be provided with all pertinent facts and documents relating to said invention and said Letters dilegal equivalents as may be known and accessible to ASSIGNOR and will test the same in any interference, litigation or proceeding related thereto and will execute and deliver to ASSIGNEE or its legal representatives any and all papers, its or affidavits required to apply for, obtain, maintain, issue and enforce said applied invention and said Letters Patent and said equivalents thereof which may be or desirable to carry out the purposes thereof.
IN		TNESS WHEREOF, I/We have hereunto set hand and seal this Y 1, 2006 (Date of signing).
WA	RNING	G: Date of signing must be the same as the date of execution of the application if item (a) was checked above.
		Hiroshi Koshina
		Signature of ASSIGNOR(S)
		Hiroshi koshina
If AS	SIGN	OR 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
NO	TE: M	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.

PATENT REEL: 018123 FRAME: 0194

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

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	By: Inventor(s) or Present Owner
ASSIGNME	NT OF INVENTION
	SSIGNEE to ASSIGNOR of the sum of One Dollar knowledged, and for other good and valuable con-
ASSIGNOR:	Hiroto Ucnida
(inventor(s) or person(s) or entity(ies)	(Type or print name(s) of ASSIGNOR(S))
who own the invention)	Address
	c/o ULVAC, Inc., 2500 Hagisono, Chigasaki-shi,
	Kanagawa, Japan
	Nationality a citizen of Japan
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hereby sells, assigns and transfers to	
ASSIGNEE:	ULVAC, Inc.
ASSIGNEE.	(Type or print name of ASSIGNEE)
	Address 2500 Hagisono, Chigasaki-shi, Kanagawa, Japan
	Nationality a corporation of Japan
and the successors, assigns and legal re-	epresentatives of the ASSIGNEE
(complete	e one of the following)
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an undivided per	cent (%) interest
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in and to, any and all improvements which are disclosed in the invention entitled:

SPACER FORMING METHOD AND SPACER FORMING APPARATUS

and in all foreign countries

(Assignment of Invention[16-3]—page 1 of 2)

(check and complete (a), (b), (c) or (d)) and which is found in U.S. patent application executed on even date herewith U.S. patent application executed on 12 June 2006 (c) U.S. application serial no. ____ _ filed on (d) U.S. patent no. _ $_$ issued $_$ (also check (e) if foreign application(s) is also being assigned) 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. WHEREOF, I/We have hereunto set hand _(Date of signing). WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked above Signature of ASSIGNOR(S) Hiroto Uchila If ASSIGNOR is a legal entity complete the following information

Title

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Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

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

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	By: Inventor(s) or Present Owner
ASSIGNMEN	T OF INVENTION
	SIGNEE to ASSIGNOR of the sum of One Dollar nowledged, and for other good and valuable con-
SSIGNOR:	koji Hane
nventor(s) or erson(s) or entity(ies) /ho own the invention)	(Type or print name(s) of ASSIGNOR(S))
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an undivided perce	ent (%) interest
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and in all foreign countries	
in and to, any and all improvements which SPACER FORMING METHOD AND	are disclosed in the invention entitled: D SPACER FORMING APPARATUS

PATENT REEL: 018123 FRAME: 0197

(Assignment of Invention[16-3]—page 1 of 2)

(check and complete (a), (b), (c) or (d)) and which is found in U.S. patent application executed on even date herewith U.S. patent application executed on 12 June 2006 U.S. application serial no. _____ (c) U.S. patent no. __ _ issued _ (also check (e) if foreign application(s) is also being assigned) 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. WHEREOF, I/We have hereunto set hand seal this and _(Date of signing). WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked koji Hane If ASSIGNOR is a legal entity complete the following information

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

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Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

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	By: Inventor(s) or Present Owner
ASSIGNME	NT OF INVENTION
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ASSIGNOR:	fakarori Tsuji
inventor(s) or person(s) or entity(ies) who own the invention)	(Type or print name(s) of ASSIGNOR(S))
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ASSIGNEE:	ULVAC, Inc.
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and the successors, assigns and legal re	epresentatives of the ASSIGNEE
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(Assignment of Invention[16-3]—page 1 of 2)

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

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	By: Inventor(s) or Present Owner
A COTON IS ON	
ASSIGNME.	NT OF INVENTION
In consideration of the payment by AS \$1.00), the receipt of which is hereby action,	SIGNEE to ASSIGNOR of the sum of One Dolla knowledged, and for other good and valuable con
ASSIGNOR:	Mitsuru Yahagi
inventor(s) or person(s) or entity(ies) who own the invention)	(Type or print name(s) of ASSIGNOR(S))
	Address
	c/o ULVAC, Inc., 2500 Hagisono, Chigasaki-shi,
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and the successors, assigns and legal rep	presentatives of the ASSIGNEE
(complete	one of the following)
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(Assignment of Invention[16-3]—page 1 of 2)

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(a)		U.S. patent application executed on even date herewith
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(e)		and any legal equivalent thereof in a foreign country, including the right to claim priority
or an	y cor	d to, all Letters Patent to be obtained for said invention by the above application ntinuation, division, renewal, or substitute thereof, and as to letters patent any re-examination thereof
		IOR hereby covenants that no assignment, sale, agreement or encumbrance has ill be made or entered into which would conflict with this assignment;
prom Pater tify a prom instru cation	ptly volt and some to ptly ements, saissary	IOR further covenants that ASSIGNEE will, upon its request, be provided with all pertinent facts and documents relating to said invention and said Letters dilegal equivalents as may be known and accessible to ASSIGNOR and will test the same in any interference, litigation or proceeding related thereto and will execute and deliver to ASSIGNEE or its legal representatives any and all papers, its or affidavits required to apply for, obtain, maintain, issue and enforce said applicit invention and said Letters Patent and said equivalents thereof which may be or desirable to carry out the purposes thereof. TNESS WHEREOF, I/We have hereunto set hand and seal this Y 12. 2006 (Date of signing).
WA	RNING	G: Date of signing must be the same as the date of execution of the application if item (a) was checked
		above. Mitsuru Yahari
		Signature of ASSIGNOFI(S)
		Nitsuru Yahagi
If AS	SIGN	IOR 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
NO	TE: N	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 2 of 2)