507000464 11/30/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7047302

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARCO CITRO	07/22/2020
STEFANO ALACQUA	07/30/2020
STEFANO FRANCESCHINIS	07/28/2020

RECEIVING PARTY DATA

Name:	SAES GETTERS S.P.A.
Street Address:	VIALE ITALIA 77
City:	LAINATE (MI)
State/Country:	ITALY
Postal Code:	20045

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17615245	

CORRESPONDENCE DATA

Fax Number: (703)775-1520

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 7037751510

Email: patent@elementiplaw.com

Correspondent Name: ELEMENT IP, PLC Address Line 1: 2331 MILL ROAD

Address Line 2: SUITE 610

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	81053449
NAME OF SUBMITTER:	DANIELLE SUMMERS
SIGNATURE:	/Danielle Summers/
DATE SIGNED:	11/30/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 9

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> **PATENT** REEL: 058241 FRAME: 0733 507000464

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PATENT REEL: 058241 FRAME: 0734

RECORDATION FORM COVER SHEET PATENTS ONLY			
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below			
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)		
Marco CITRO Stefano ALACQUA	Name: SAES Getters S.p.A.		
Stefano FRANCESCHINIS	Internal Address:		
	internal Address.		
Additional name(s) of conveying party(ies) attached? Yes \square No			
3. Nature of conveyance / execution date(s):			
Execution Date(s):7/22/2020, 7/30/2020, 7/28/2020	Street Address: Viale Italia 77		
■ Assignment □ Merger			
☐ Security Agreement ☐ Change of Name	City: Lainate (MI)		
☐ Joint Research Agreement	State:		
☐ Government Interest Assignment	Country: IT Zip: 20045		
☐ Executive Order 9424, Confirmatory Interest	Additional name(s) & address(es) attached? Yes □ No ■		
☐ Other:	10		
4. Application or patent number(s):	cument services as an Oath/Declaration (37 CFR 1.63)		
A. Patent Application No.(s): 17615245	B. Patent No.(s):		
Additional numbers atta	ached? Yes □ No ■		
5. Name and address to whom correspondence concerning 6. Total number of applications and patents			
document should be mailed:	involved:1		
N. T. D. C.	7. Total Fee (37 CFR 1.21(h) & 3.41): \$		
Name: Element IP, PLC	☐ Authorized to be charged to Deposit Account		
Street Address: 2331 Mill Road			
Suite 610	☐ Enclosed		
City: Alexandria	■ None required (government interest not affecting title)		
City. Alexandria			
State: Virginia Zip: 22314	8. Payment Information		
Phone Number: 703-775-1510			
Docket Number: 81053449	Deposit Account Number: 603350		
E-mail Address: patent@elementiplaw.com	Authorized User Name:		
9. Signature:			
/Beau Burton/	11/30/2021		
Signature Date			
Beau Burton Total number of pages including cover			
Name of Person Signing	sheet, attachments, and documents:		
runic of 1 cison organic	L1		
Documents to be recorded (including cover sheet)			
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450			

PATENT REEL: 058241 FRAME: 0735

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bskb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

Title of Invention	⇒ BALANCED PRESSURE TWO-ZONE FLUIDIC VALVE WITH SHAPE MEMORY ALLOY CONTROL ELEMENT
	As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
Application not Attached	⇒ This declaration is directed to the application attached hereto. If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:
Enter Appln. No.	[⇔] United States Application Number or PCT International Appln. No. PCT/EP2020/070559
Enter Filing Date	⇒ filed on July 21, 2020 .
	The above-identified application was made or authorized to be made by me.
	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
	I have reviewed and understand the contents of the above-identified application, including the claims.
	I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.
	WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.
Insert Name of Assignee	→ WHEREAS, SAES Getters S.p.A.
Insert Address of Assignee	⇒ of Viale Italia 77, 20045 Lainate (MI), Italy
	its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
Check Box if Appropriate	⇒ ☐ in any foreign countries.
	NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

PATENT BSKB-DECASSIGN(09-12)

REEL: 058241 FRAME: 0736

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agrees to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

LEGAL NA	AME OF INVENTOR	
Inventor's Name □ Inventor:	Marco Citro	Date: 22/07/2020
Inventor's Signature ⇒ Signature:	Tous Au	
	O/SB/14 or equivalent), including naming the entire inventinentor; or check the box below and complete the attached p	
Additional inventors are l	peing named on the supplemental sheet(s) attached her	eto.

PATENT

BSKB-DECASSIGN-SINGLE (09-12)

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

ADDITIONAL INVENTOR(S) Supplemental Sheet Page _____ of _____

	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	Inventor:	Date:
Inventor's Signature	Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	Inventor:	Date:
Inventor's Signature =		
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Date:
Inventor's Signature	⇒Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Date:
Inventor's Signature	⇒Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Date:
Inventor's Signature	⇒Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Date:
Inventor's Signature	⇒Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Date:
Inventor's Signature	⇒Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Date:
Inventor's Signature	⇒Signature:	

PATENT BSKB-DECASSIGN\(09-12)

REEL: 058241 FRAME: 0738

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bskb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

Title of Invention	4	BALANCED PRESSURE TWO-ZONE FLUIDIC VALVE WITH SHAPE MEMORY ALLOY CONTROL ELEMENT
		As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
Application not Attached	Ε,	This declaration is directed to the application attached hereto. If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:
Enter Appln. No.	4	United States Application Number or PCT International Appln. No. PCT/EP2020/070559
Enter Filing Date	4	filed on July 21, 2020 .
		The above-identified application was made or authorized to be made by me.
		I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
		I have reviewed and understand the contents of the above-identified application, including the claims.
		I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations § 1.56.
		WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.
Insert Name of Assignee	4	WHEREAS, SAES Getters S.p.A.
Insert Address of Assignee	4	of Viale Italia 77, 20045 Lainate (MI), Italy
J		its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
Check Box if Appropriate	4	in any foreign countries.
		NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

Page 1

PATENT BSKB-DECASSIGN(09-12)

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agrees to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

	LEGAL NAME OF INVENTOR		
Inventor's Name ⇒	Inventor:	Stefano Alacqua	Date: Jul 30th 2020
Inventor's Signature ⇒	Signature:	Edano Alacquo	
An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors.			
Additional inventors are being named on the supplemental sheet(s) attached hereto.			

-DECASSIGN-SINGLE (09-12) PATENT

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

ADDITIONAL INVENTOR(S) Supplemental Sheet Page _____ of _____

LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒ Inventor: _____ Date: _____ Inventor's Signature ⇒ Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒ Inventor: _____ Date: ____ Inventor's Signature ⇒ Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name [⇔]Inventor: Date: Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: _____ Date: ______ Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Date: Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: Date: Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ÖInventor: Date: Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: Date: Inventor's Signature ⇒Signature:

BSKB-DECASSIGN\(09-12)

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bskb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

UNITED STATES PATENT RIGHTS, OR
LIMITED STATES PLUS ALL FOREIGN PATENT RIGHTS

		OMITED STATES I LOS ALLET ORLIGHT I ATLEST TOCKED
litle of Invention	÷	BALANCED PRESSURE TWO-ZONE FLUIDIC VALVE WITH SHAPE MEMORY ALLOY CONTROL ELEMENT
		As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
Application not Attached	⇔	This declaration is directed to the application attached hereto. If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:
Enter Appln, No.	⇔	United States Application Number or PCT International Appln. No. PCT/EP2020/070559
Enter Filing Date	⇔	filed on July 21, 2020
		The above-identified application was made or authorized to be made by me.
		I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
		I have reviewed and understand the contents of the above-identified application, including the claims.
		I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.
		WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.
insert Name of Assignee	πþ	WHEREAS, SAES Getters S.p.A.
insert Address of Assignee	c	of Viale Italia 77, 20045 Lainate (MI), Italy
		its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
Check Box if Appropriate	сţ	in any foreign countries.
		NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.
		· ·

BSKB-DECASSIGN(09-12)

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The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

LEGAL NAME OF INVENTOR

Inventor's Name	Stefano Franceschimis Date: 28/7/2332			
	Stoffen Jacobis			
An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors.				
Additional inventors are b	eing named on thesupplemental sheet(s) attached hereto.			

BSKB-DECASSION-SINGLE (09-12)