

7 Documents

Publication numbers	Title	Current assignees
US20170173877 A1	Additive manufacturing with metallic composites	DESKTOP METAL
US20170252817 A1	Semi-solid metallic additive fabrication with temperature control using force feedback	DESKTOP METAL
CA2931693 A1	Systems for cryogenic cooling	ADAGIO MEDICAL
JP2003081649 A	Forming die for surface forming and method of manufacturing this formed die	SUMITOMO COAL MINING
WO201156684 A2	Delivery devices with coolable energy emitting assemblies	NUVAIRA
KR20060114657 A	Heat treatment apparatus of light emission type	DAINIPPON SCREEN MANUFACTURING
DKPA201100123 A	An actuator element and an actuator for generating a force and/or a movement	JOLTECH

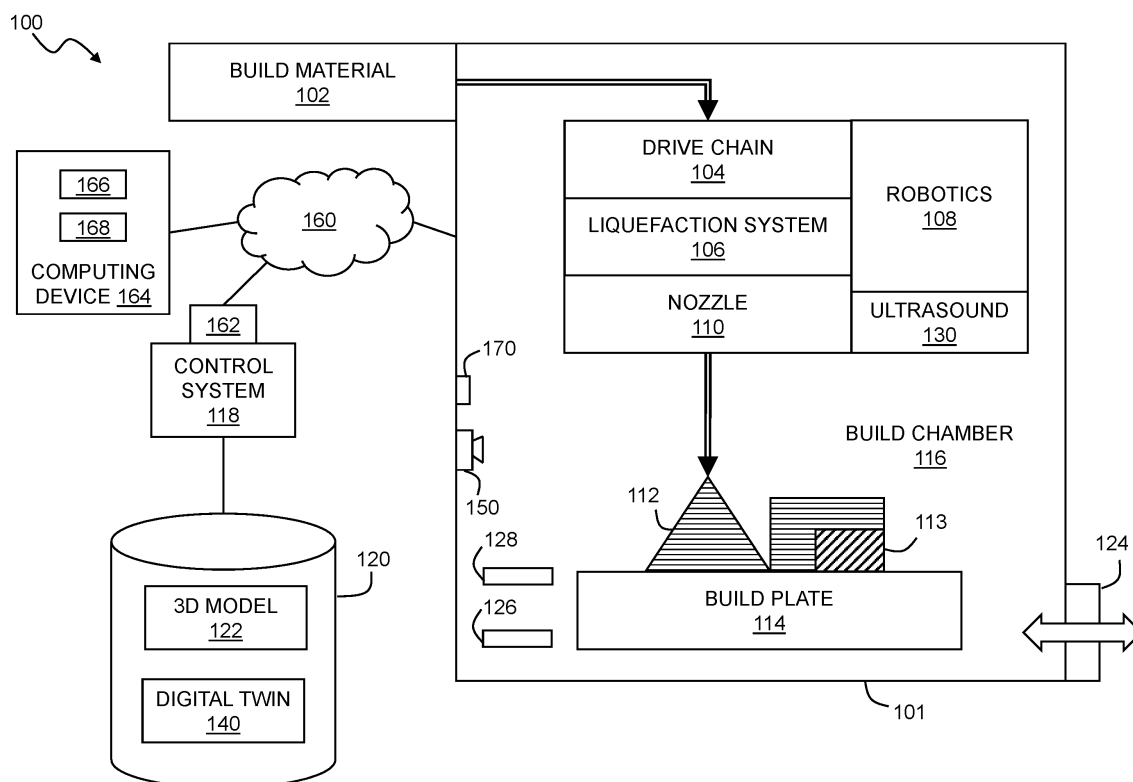
Family 1/7 - FAMPAT - ©Questel

Title

(WO2017151837)

Additive manufacturing with metallic composites

Images



Publication data including kind & date

US2017173877	A1	2017-06-22	US20170173877
US2017173879	A1	2017-06-22	US20170173879
US2017173878	A1	2017-06-22	US20170173878
US2017173697	A1	2017-06-22	US20170173697
US2017173694	A1	2017-06-22	US20170173694
US2017173693	A1	2017-06-22	US20170173693
US2017173692	A1	2017-06-22	US20170173692
US2017173695	A1	2017-06-22	US20170173695
US2017182560	A1	2017-06-29	US20170182560
US2017252851	A1	2017-09-07	US20170252851
WO2017151837	A1	2017-09-08	WO2017151837



Abstract

(WO2017151837)

A class of metallic composites is described with advantageous bulk properties for additive fabrication. In particular, the composites described herein can be used in fused filament fabrication or any other extrusion or deposition-based three-dimensional printing process.

Inventors

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MYERBERG JONAH SAMUEL

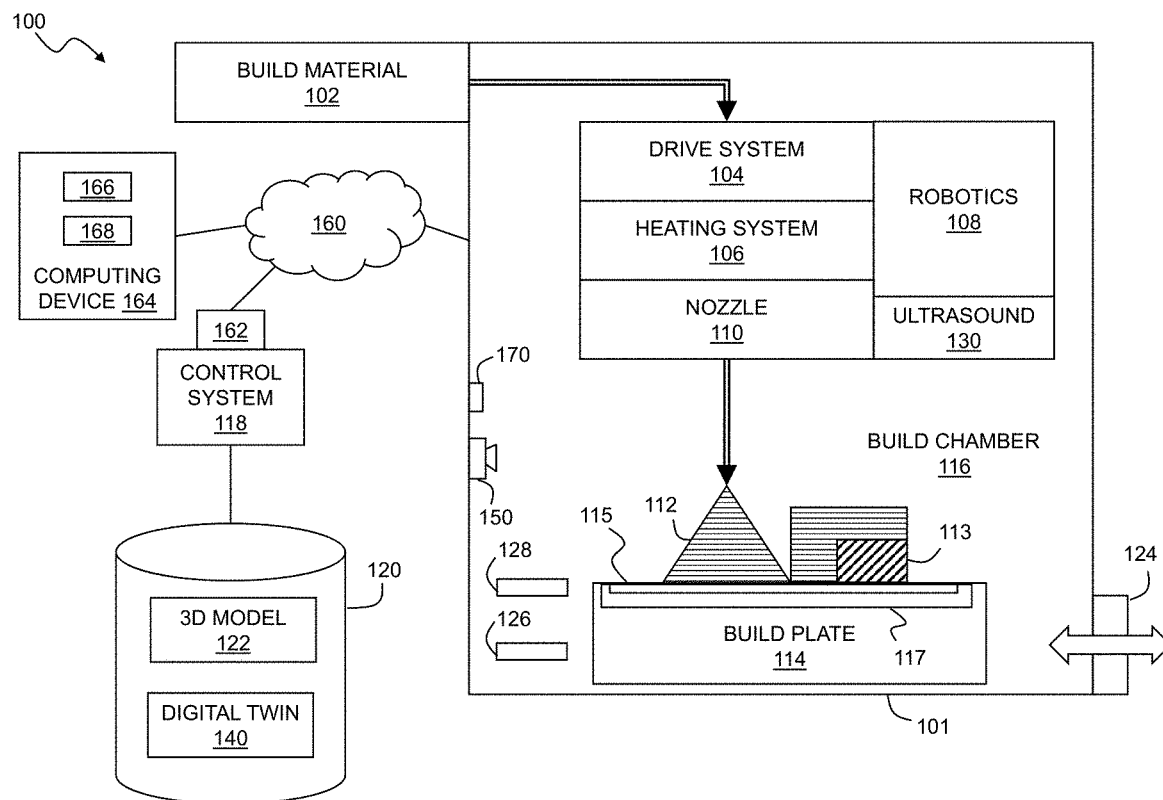
Latest standardized assignees - inventors removed**DESKTOP METAL**

Family 2/7 - FAMPAT - ©Questel

Title

(US20170252820)

Semi-solid metallic additive fabrication with temperature control using force feedback

Images**Publication data including kind & date**

US2017252817	A1	2017-09-07	US20170252817
US2017252818	A1	2017-09-07	US20170252818
US2017252816	A1	2017-09-07	US20170252816
US2017252820	A1	2017-09-07	US20170252820
US2017252814	A1	2017-09-07	US20170252814
US2017252819	A1	2017-09-07	US20170252819
US2017252813	A1	2017-09-07	US20170252813
US2017252815	A1	2017-09-07	US20170252815
US2017252812	A1	2017-09-07	US20170252812

**Abstract**

(US20170252820)

A control loop for extrusion of a metallic build material such as bulk metallic glass measures a force required to extrude the build material, and uses this sensed parameter to estimate a temperature of the build material. The temperature, or a difference between the estimated temperature and a target temperature, can be used to speed or slow extrusion of the build material to control heat transfer from a heating system along the feedpath. This general control loop may be modified to account for other possible conditions such as nozzle clogging or the onset of crystallization.

Inventors

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SCHUH CHRISTOPHER ALLAN

SACHS EMANUEL MICHAEL

SCHMITT PETER ALFONS

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Latest standardized assignees - inventors removed

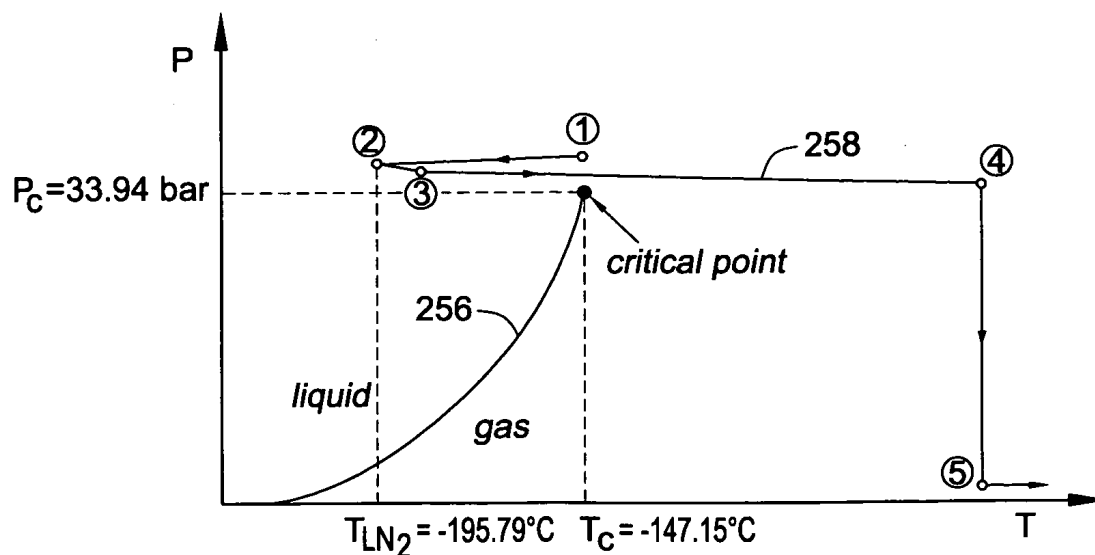
DESKTOP METAL

Family 3/7 - FAMPAT - ©Questel

Title

(EP3075337)

Systems for cryogenic cooling

Images**Publication data including kind & date**

CA2931693	A1	2004-08-05	CA2931693
WO2004064914	A2	2004-08-05	WO200464914
CA2516122	A1	2004-08-05	CA2516122
AU2004206911	A1	2004-08-05	AU2004206911
WO2004064914	A3	2005-03-03	WO200464914
EP1592357	A2	2005-11-09	EP1592357
US2005261753	A1	2005-11-24	US20050261753
MXPA05007622	A	2006-02-22	MX2005PA007622
JP2006517118	A	2006-07-20	JP2006517118
WO2006137887	A2	2006-12-28	WO2006137887
CA2579122	A1	2006-12-28	CA2579122
AU2005333185	A1	2006-12-28	AU2005333185
WO2006137887	A9	2007-04-19	WO2006137887
MX2007003395	A	2007-05-23	MX2007003395



EP1793773	A2	2007-06-13	EP1793773				
IL181805	A	2007-07-04	IL-181805				
KR20070073829	A	2007-07-10	KR20070073829				
IN0603/MUMNP/2007	A	2007-07-27	IN2007MN00603				
US7273479	B2	2007-09-25	US7273479				
EP1592357	A4	2007-10-31	EP1592357				
WO2006137887	A3	2007-12-27	WO2006137887				
JP2008515469	A	2008-05-15	JP2008515469				
US2008173028	A1	2008-07-24	US20080173028				
CN101257855	A	2008-09-03	CN101257855				
BRPI0517558	A	2008-10-14	BR200517558				
BRPI0517558	A1	2008-10-14	BRPI0517558				
AU2004206911	B2	2009-07-16	AU2004206911				
AU2009225359	A1	2009-11-05	AU2009225359				
JP2010051827	A	2010-03-11	JP2010051827				
JP4572193	B2	2010-10-27	JP4572193				
EP1793773	A4	2010-12-15	EP1793773				
CN101257855	B	2010-12-22	CN101257855B				
CN101972167	A	2011-02-16	CN101972167				
AU2005333185	B2	2011-03-24	AU2005333185				
US7921657	B2	2011-04-12	US7921657				
EP2311398	A1	2011-04-20	EP2311398				
US2011162390	A1	2011-07-07	US20110162390				
HK1122484	A1	2011-07-29	HK1122484				
IL214174	A	2011-08-31	IL-214174				
IL214173	A	2011-08-31	IL-214173				
IL181805	B	2011-09-27	IL-181805				
CN101972167	B	2012-05-30	CN101972167B				
AU2009225359	B2	2012-06-07	AU2009225359				
HK1151956	A1	2012-10-26	HK1151956				
IL214173	B	2012-12-31	IL-214173				
IL214174	B	2013-01-31	IL-214174				
US8387402	B2	2013-03-05	US8387402				
JP5295937	B2	2013-09-18	JP5295937				
JP5342776	B2	2013-11-13	JP5342776				
EP1592357	B1	2013-11-13	EP1592357				
ES2442445	T3	2014-02-11	ES2442445				
CA2579122	C	2014-06-17	CA2579122				
EP2311398	B1	2015-04-15	EP2311398				
EP2904986	A1	2015-08-12	EP2904986				
CA2516122	C	2016-07-26	CA2516122				
EP3075337	A1	2016-10-05	EP3075337				
CA2931693	C	2017-03-14	CA2931693				
EP1793773	B1	2017-07-19	EP1793773				

Abstract

(EP3075337)

Methods and systems are provided for cooling a surface of a cryogenic application device using a cryogen having a critical point defined by a critical-point pressure and a critical-point temperature, the system comprising: a means for raising a

pressure of the cryogen above a pressure value determined to provide the cryogen at a reduced molar volume that prevents vapor lock; and a means for thereafter placing the cryogen in thermal communication with the surface of the cryogenic application device to increase a temperature of the cryogen along a thermodynamic path that maintains a pressure greater than a determined pressure value for the duration that the cryogen and the surface are in thermal communication.

Inventors

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Latest standardized assignees - inventors removed

ADAGIO MEDICAL

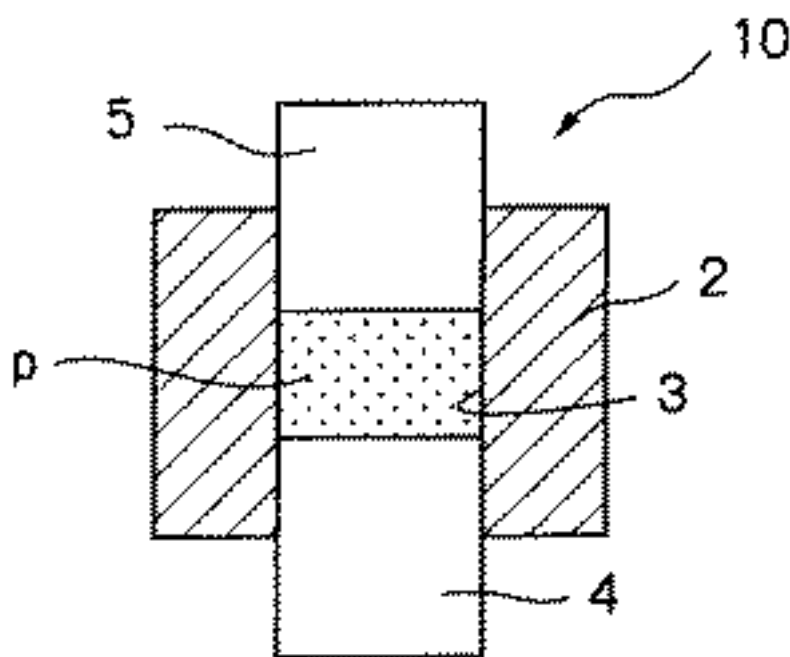
Family 4/7 - FAMPAT - ©Questel

Title

(JP2003081649)

Forming die for surface forming and method of manufacturing this formed die

Images



Publication data including kind & date

JP2003081649	A	2003-03-19	JP2003081649
KR20030055169	A	2003-07-02	KR20030055169
JP2004091241	A	2004-03-25	JP2004091241
KR20070037731	A	2007-04-06	KR20070037731
JP3935029	B2	2007-06-20	JP3935029
KR100763287	B1	2007-10-04	KR100763287
KR100787016	B1	2007-12-18	KR100787016
JP4098982	B2	2008-06-11	JP4098982



Abstract

(JP4098982)

PROBLEM TO BE SOLVED: To provide a forming die for surface forming formed goods in the case these formed goods are made by glass and plastic material, i.e., a resin material. **SOLUTION:** This formed die 100 is formed to a desired shape

by using a binderless superfine sintered hard alloy material in the segment of a molding surface 102 for forming at least the surface of the forming die and sintering this superfine sintered hard alloy material by a pulse electrosintering process and the forming surface 102 for forming the above surface is subjected to nearnet shaping sintering to a mirror finished surface form then to polishing.

Inventors

TOKITA MASAO

SAKASHITA MASAKAZU

Latest standardized assignees - inventors removed

SUMITOMO COAL MINING

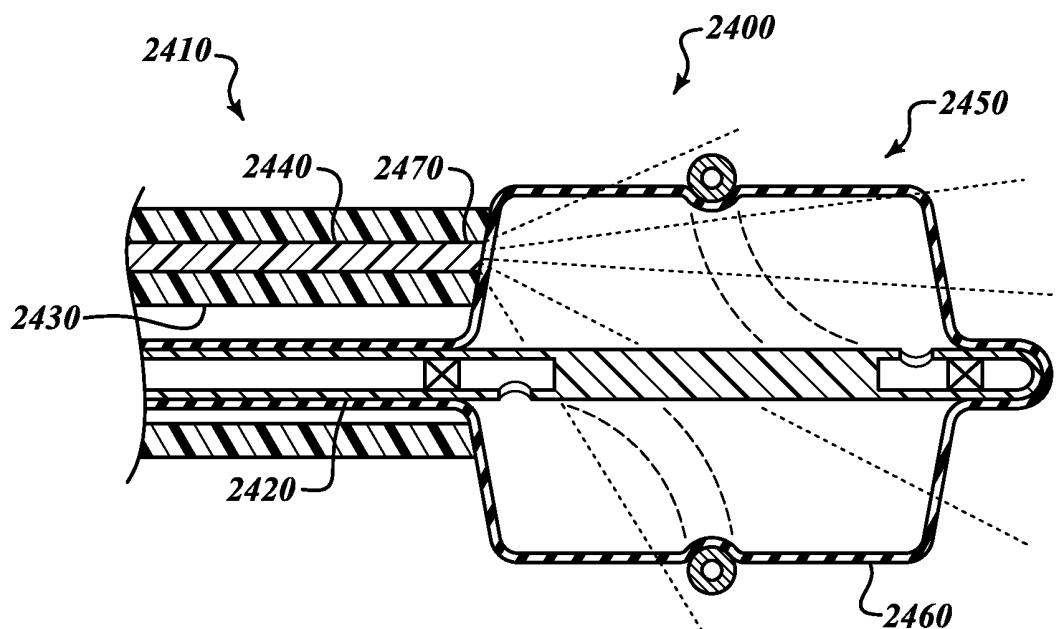
Family 5/7 - FAMPAT - ©Questel

Title

(EP2926757)

Delivery devices with coolable energy emitting assemblies

Images



Publication data including kind & date

WO2011056684	A2	2011-05-12	WO201156684
CA2779135	A1	2011-05-12	CA2779135
US2011152855	A1	2011-06-23	US20110152855
WO2011056684	A3	2011-08-11	WO201156684
US2012016363	A1	2012-01-19	US20120016363
US2012016364	A1	2012-01-19	US20120016364
AU2010315396	A1	2012-05-03	AU2010315396
IL219167	A	2012-06-28	IL-219167
CN102639077	A	2012-08-15	CN102639077
EP2493408	A2	2012-09-05	EP2493408
KR20120100993	A	2012-09-12	KR20120100993
JP2013508121	A	2013-03-07	JP2013508121
US2013289555	A1	2013-10-31	US20130289555



US2013289556	A1	2013-10-31	US20130289556				
US2013296647	A1	2013-11-07	US20130296647				
US8740895	B2	2014-06-03	US8740895				
US8777943	B2	2014-07-15	US8777943				
CN104042322	A	2014-09-17	CN104042322				
US8932289	B2	2015-01-13	US8932289				
US2015051597	A1	2015-02-19	US20150051597				
US9005195	B2	2015-04-14	US9005195				
US9017324	B2	2015-04-28	US9017324				
CN102639077	B	2015-05-13	CN102639077B				
US2015141985	A1	2015-05-21	US20150141985				
EP2493408	B1	2015-06-24	EP2493408				
CN104856757	A	2015-08-26	CN104856757				
EP2926757	A2	2015-10-07	EP2926757				
EP2926757	A3	2015-10-21	EP2926757				
IN4377/DELNP/2012	A	2015-11-27	IN2012DN04377				
JP5843777	B2	2016-01-13	JP5843777				
JP2016013449	A	2016-01-28	JP2016013449				
AU2010315396	B2	2016-05-05	AU2010315396				
KR101722290	B1	2017-03-31	KR101722290				
US9649153	B2	2017-05-16	US9649153				
CN104042322	B	2017-06-06	CN104042322B				
US9675412	B2	2017-06-13	US9675412				
CN104856757	B	2017-06-23	CN104856757B				
CN107049479	A	2017-08-18	CN107049479				
US9931162	B2	2018-04-03	US9931162				

Abstract

(EP2926757)

Systems, delivery devices, and methods to treat to ablate, damage, or otherwise affect tissue. The treatment systems are capable of delivering a coolable ablation assembly that ablates targeted tissue without damaging non-targeted tissue. The coolable ablation assembly damages nerve tissue to temporarily or permanently decrease nervous system input.

Inventors

MAYSE MARTIN L

DIMMER STEVEN

Latest standardized assignees - inventors removed

NUVAIRA

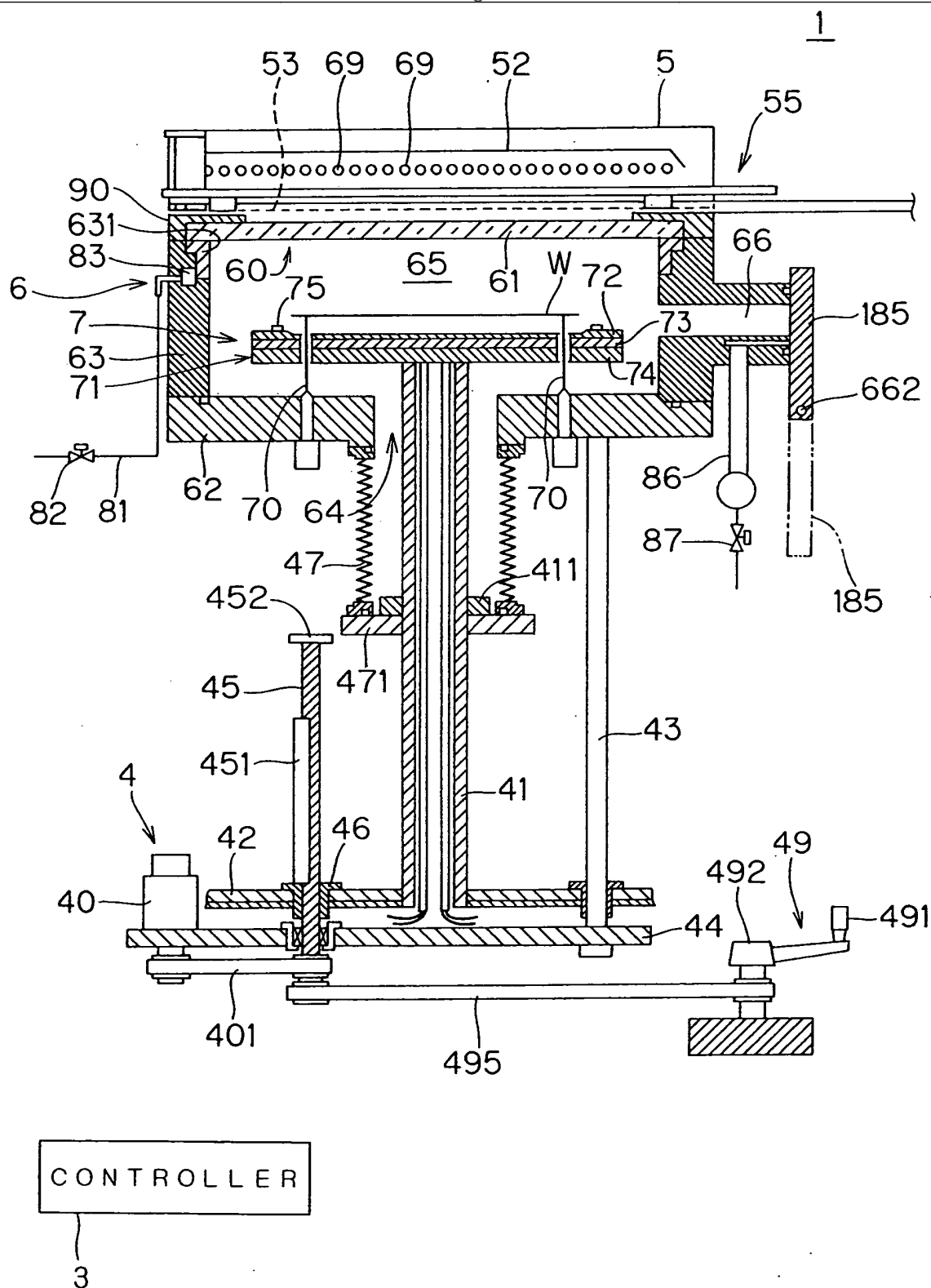
Family 6/7 - FAMPAT - ©Questel

Title

(US20060291832)

Heat treatment apparatus of light emission type

Images



Publication data including kind & date

KR20060114657	A	2006-11-07	KR20060114657
CN1858897	A	2006-11-08	CN1858897
JP2006310690	A	2006-11-09	JP2006310690
US2006291832	A1	2006-12-28	US20060291832
TW200701369	A	2007-01-01	TW200701369
KR100802697	B1	2008-02-12	KR100802697
CN100394544	C	2008-06-11	CN100394544C
TWI307925	B	2009-03-21	TWI307925
JP4866020	B2	2012-02-01	JP4866020



Abstract

(US20060291832)

A flash of light emitted from flash lamps is directed through an optical window defined by an opening provided in a clamp ring onto a semiconductor wafer. Because the opening of the clamp ring is of an elliptical configuration, the optical window defined by the clamp ring is also of an elliptical plan configuration. The clamp ring is mounted to a chamber so that opposite edge portions of the optical window facing parts of a peripheral portion of the semiconductor wafer which have a relatively low temperature if a flash of light is directed from the flash lamps through the optical window, assuming that the optical window is of a circular plan configuration, are opposite edge portions of the optical window which are located on the minor axis of the elliptical configuration. Directing the flash of light through the optical window increases the temperature of the parts of the peripheral portion having the relatively low temperature to improve the within-wafer uniformity of a temperature distribution of the semiconductor wafer during flash heating.

Inventors

ITO YOSHIO

Latest standardized assignees - inventors removed

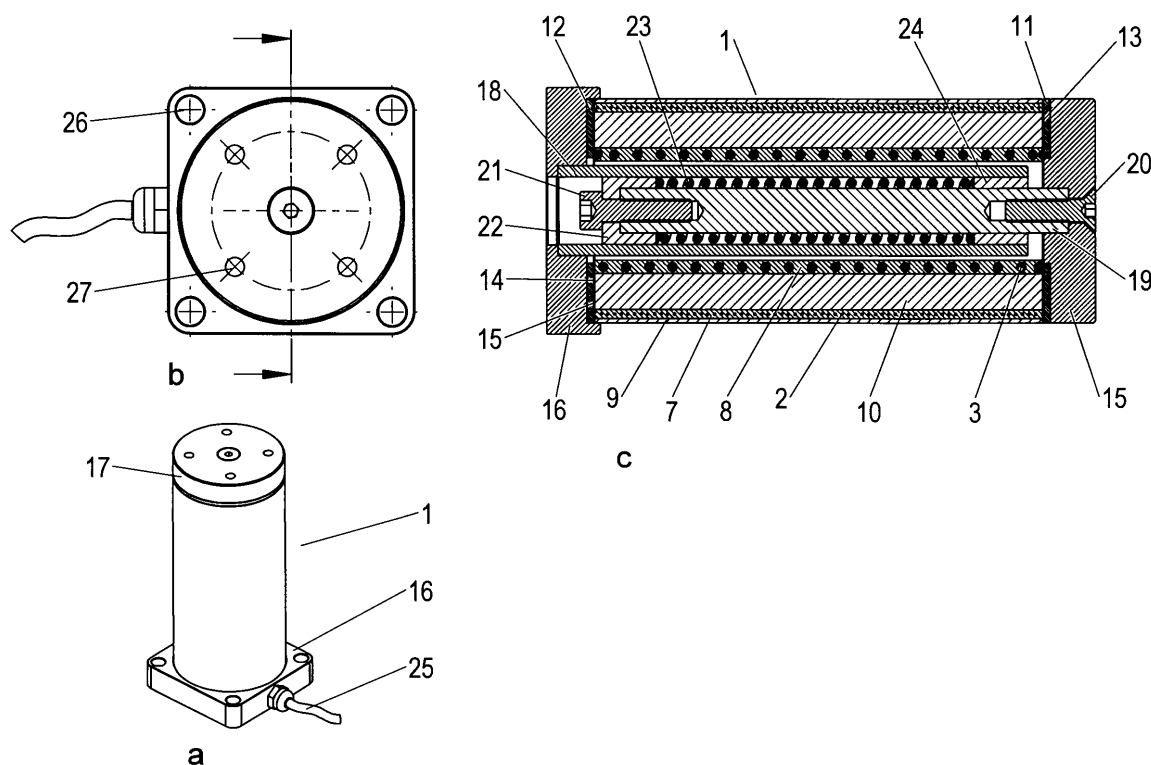
DAINIPPON SCREEN MANUFACTURING

Family 7/7 - FAMPAT - ©Questel

Title

(EP2678561)

An actuator element and an actuator for generating a force and/or a movement

Images**Publication data including kind & date**

DK201100123	A	2012-08-24	DKPA201100123
WO2012113398	A1	2012-08-30	WO2012113398
DK177268	B1	2012-09-10	DK-177268
CN103392070	A	2013-11-13	CN103392070
EP2678561	A1	2014-01-01	EP2678561
US2014086772	A1	2014-03-27	US2014086772
IN6828/DELNP/2013	A	2015-01-23	IN2013DN06828
CN103392070	B	2016-08-17	CN103392070B



Abstract

(EP2678561)

The present invention concerns an actuator element (1) for generating a force and/or a movement, the element (1) comprising at least one cylindrical rubber part (4), at least one helical spring (3) and at least one SMA wire wound to a helical shape (2), the cylindrical rubber part (4) having in its longitudinal direction a cylindrical cavity, the helical spring (3) and the wound SMA wire (2) being arranged around the cylindrical cavity. The invention relates furthermore to a liquid pump, an actuator and a vibration damper for damping vibration comprising an actuator element according to the invention.

Inventors

OLSEN JAN

Latest standardized assignees - inventors removed

JOLTECH