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1) Family number: 2418028 (US3938974A)

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Title: METHOD OF PRODUCING OPTICAL WAVE GUIDE FIBERS

Abstract: Procedures are disclosed for producing both core-cladding optical fibers and self-focusing optical fibers from porous germinate and/or silicate glasses obtained after phase separation and removal of the soluble phase. A glass which is separable into at least two phases one of which is soluble, is heated to cause phase separation. The soluble phase is leached out removing undesired impurities. The pores are collapsed and this glass is used to produce cores and/or cladding layers, or self focusing fibers. According to one aspect of the invention, preforms of the porous glass have their interconnected pores stuffed with a dopant. In the production of core-cladding optical fibers, the dopant modifies the index of refraction of the core and/or cladding so that the index of refraction of the core is greater than that of the cladding. The control of this index of refraction can be accomplished by addition of non silicate network formers such as GeO₂ to the original melt before phase separation. These network formers will stay in the insoluble phase. In producing self-focusing fibers, the dopant may be non-uniformly deposited in order to produce a radial gradient in the index of refraction, or sodium or potassium ions may be ion exchanged into the glass for a portion of a dopant containing lithium or thallium to produce such an index of refraction gradient.

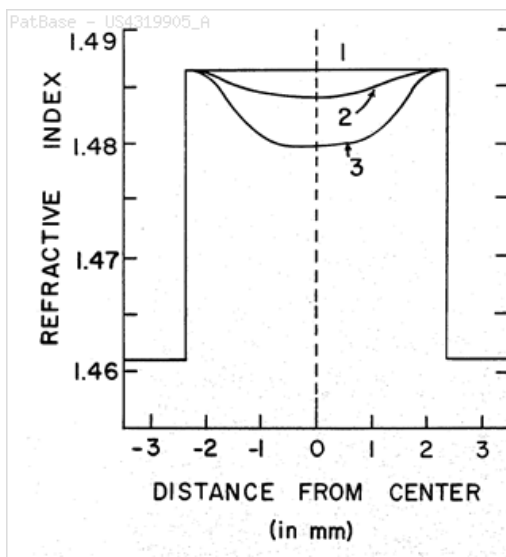
Classifications:

International (IPC 8-9): B08B3/08 B08B3/10 B41C3/00 B44C1/22 C03B20/00 C03B37/014 C03B37/016 C03B37/02 C03B8/00 C03C11/00 C03C13/00 C03C13/04 C03C15/00 C03C17/22 C03C21/00 C03C23/00 C03C25/00 C03C3/06 C03C3/076 C03C3/089 C03C3/091 C03C4/00 C23F1/00 C23G1/00 G02B6/00 G02B6/02 G02B6/028 G02B6/12 H01P11/00 (Advanced/Invention); C03B20/00 C03B37/014 C03B8/00 C03C3/06 C03C3/076 G02B6/00 (Advanced/Non-invention); C03B20/00 C03B37/014 C03B37/016 C03B37/02 C03B8/00 C03C11/00 C03C13/00 C03C15/00 C03C17/22 C03C21/00 C03C23/00 C03C25/00 C03C3/06 C03C3/076 C03C4/00 G02B6/00 G02B6/02 G02B6/12 H01P11/00 (Core/Invention); C03B (Subclass/Non-invention)
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CPC: C03C11/00 C03C13/001 C03C3/061 Y10T428/1317 Y10T428/24942 Y10T428/24992 Y10T428/315 Y02P40/57 G02B6/0281 C03B37/016 C03B2201/10 C03B2201/30 C03B2201/32 C03B2201/34 C03B2201/50 C03B2201/54 C03C3/089 C03C3/091 C03C11/005 C03C13/00 C03C13/005 C03C13/045 C03C13/046 C03C15/00 C03C21/00 C03C23/0095 G02B6/02 G02B6/03611
European: C03B37/016 C03C11/00 C03C11/00D C03C13/00 C03C13/00B C03C13/00F C03C13/04D C03C13/04D2 C03C15/00 C03C21/00 C03C23/00S C03C3/06B C03C3/089 C03C3/091 G02B6/02 G02B6/028C G02B6/16 G02B6/18 M03B201/10 M03B201/30 M03B201/32 M03B201/34 M03B201/50 M03B201/54 S02B6/028C S02B6/036H2
US: 106/54 385/124 385/141 427/169 428/212 428/218 428/34.6 428/35 428/410 428/426 501/37 501/39 501/55 501/65 501/66 65/30.1 65/30.13 65/30.14 65/30R 65/31 65/399 65/3R 65/427 65/429 65/472 65/60.52 65/60.53 65/60.8

Family:

Publication number	Publication date	Application number	Application date
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DE2420558 C2	19860528	DE19742420558	19740427
DE2611495 A1	19761007	DE19762611495	19760318
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JP51126207 A2	19761104	JP19760029758	19760318
JP51135915 A2	19761125	JP19760029759	19760318
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US4236930 A	19801202	US19780917100	19780609
US4313748 A	19820202	US19800123979	19800225
US4319905 A	19820316	US19800162893	19800625

Priority:

US19730355164 19730427	US19740462481 19740422	CA19750219174 19750131
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Inventor(s): LITOVITZ THEODORE AARON SILVER SPRING MD ; THEODORE A LITOVITZ ; T A LITOVITZ ; THEODORE AARON LITOVITZ ; TH A LITOVITZ ; TA LITOVITZ ; PEDRO MANOEL BUARQUE DEMACEDO THEODORE AARON LITOVITZ ; THA LITOVITZ ; MACEDO PEDRO MANOEL BUARQUE DE BETHESDA MD ; PB MACEDO ; MACEDO P B AND LITOVITZ TA ; WIRD SPAETER GENANNT WERDEN ; AARON LITOVITZ THEODORE ; AARON PROF LITOVITZ THEODORE ; DE PROF MACEDO PEDRO MANOEL BUARQUE ; DE MACEDO PEDRO MANOEL BUARQUE ; MACEDO PEDRO MANOEL BUARQUE DE BETHESDA MD US ; MACEDO PEDRO B BETHESDA MD US ; PEDORO MANOORU BAAKU DO MEESEDOO ; PEDORO MANOORU PAAKU DO MEESEDOO ; PEDRO B MACEDO ; P B MACEDO ; PEDRO MANOEL BUARQUE DE MACEDO ; LITOVITZ THEODORE AARON SILVER SPRING MD US ; LITOVITZ THEODORE A SILVER SPRING MD US

Agent(s): PO; PHILLIPS ORMONDE FITZPATRICK; PRIMAK AND CO

2) Family number: 4310067 (US4442175A)

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Title: CELLULAR CERAMIC BODIES AND METHOD MAKING SAME

Abstract: Cellular ceramic bodies are produced by frothing a crystal-containing, ion-exchanged gel and setting the gel. An aqueous gel is prepared from a water-swelling mica and is blended in conjunction with a large cation donor, e.g., a potassium salt or silicate glass, and a surfactant to effect frothing of the gel by a shearing action and exchange of large cations with lithium and/or sodium ions from the mica to produce an ion-exchanged gel that sets in controllable manner.

Classifications:**International (IPC 8-9):** C04B28/02 C04B38/10 (Advanced/Invention);

C04B28/00 C04B38/10 (Core/Invention)

International (IPC 1-7): C03B19/10**CPC:** Y10S65/901 C04B28/02 C04B38/10 Y10T428/2993 Y10T428/2996**European:** C04B28/02 C04B38/10**US:** 428/404 428/406 501/12 501/33 501/39 501/84 65/17 65/17.2 65/21.3 65/21.4 65/22 65/30.13 65/30.14 65/901**Family:**

Publication number	Publication date	Application number	Application date
US4442175 A	19840410	US19830461670	19830127

Priority:

US19830461670 19830127

Probable Assignee: CORNING INC**Assignee(s):** (std): CORNING GLASS WORKS**Assignee(s):** CORNING GLASS WORKS A CORP OF ; CORNING GLASS WORKS CORNING NY A CORP ; CORNING GLASS WORKS CORNING NY A CORP OF ; CORNING INC**Inventor(s):** (std): FLANNERY JAMES E ; SHOUP ROBERT D ; WEXELL DALE R**3) Family number: 546112** (DE2104218A1)

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Title: HIGH ADHESIVE WATER PROOF ENAMEL FOR CERAMICS - BASED ON SILICEOUS MATERIAL ALKALI METAL SILICATE OR HYDROXIDE AND METAL OXIDES

Abstract: Silicate and/or oxide material as powder or fibre (e.g. basalt, slag, glass, silica gel, boron and lead oxide) is dissolved in alkali or alkali metal silicate (e.g. Li, Na K hydroxides or corresponding silicates) at 80 degrees centigrade under normal or elevated pressure and the resulting solution is dehydrated by spray drying to 5-15 percent water content. The resulting powder is ground and formed into a suspension with water or coloured metal salt soln. e.g. CoSO₄, the suspension coated onto fired or unfired ceramic and fired on. Turbidity materials and organic polymer binders can be added to the suspension.

Classifications:**International (IPC 8-9):** C04B41/50 C04B41/86 (Advanced/Invention);

C04B41/45 C04B41/86 (Core/Invention)

International (IPC 1-7): C03C9/00 C04B41/06 C04B41/10**CPC:** C04B41/009 C04B41/5022 C04B41/86**European:** C04B41/00V C04B41/50M C04B41/86**Family:**

Publication number	Publication date	Application number	Application date
DE2104218 A1	19720803	DE19712104218	19710129

DE2104218 B2	19751106	DE19712104218	19710129
DE2104218 C3	19760624	DE19712104218	19710129

Priority:

DE19712104218 19710129

Probable Assignee: WASAGCHEMIE AG

Assignee(s): (std): WASAGCHEMIE AG

Assignee(s): WASAGCHEMIE GMBH 8000 MUENCHEN

Inventor(s): (std): KRAEMER STEFAN DIPL CHEM DR ; SEGER MICHAEL ; SEIDL ALOIS DIPL PHYS

Inventor(s): SEGER MICHAEL 4150 KREFELD

4) Family number: 28672162 (US5591453A)

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Title: Incorporation of biologically active molecules into bioactive glasses

Abstract: Carriers comprising silica-based glass providing for the controlled release of biologically active molecules, their methods of preparation, and methods of use are disclosed. The carriers are prepared using a sol-gel-derived process. Biologically active molecules are incorporated within the matrix of the glass during production.

Classifications:

International (IPC 8-9): A61F2/28 A61F2/30 A61K38/14 A61K38/18 A61K38/57 A61K47/02 A61K47/04 A61K9/00 A61K9/16 A61K9/20 A61L27/00 A61L27/30 A61L27/54 C03C4/00 (Advanced/Invention); A61F2/30 A61K47/02 A61K9/00 (Advanced/Non-invention); A61F2/28 A61K38/14 A61K38/18 A61K38/55 A61K47/02 A61K9/00 A61K9/16 A61K9/20 A61L27/00 C03C4/00 (Core/Invention); A61F2/30 (Core/Non-invention)

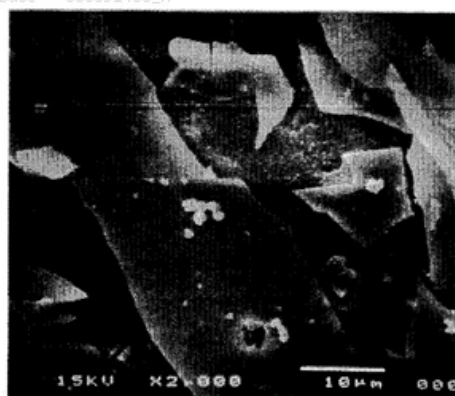
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CPC: Y10S514/953 Y10S514/965 A61K38/14 A61F2/28 A61F2/30767 A61F2002/30677 A61K9/1611 A61K9/2009 A61K38/1841 A61K38/57 A61L27/306 A61L27/54 A61L2300/252 A61L2300/402 A61L2300/406 A61L2300/41 A61L2300/414 A61L2300/602 A61L2430/02 C03C4/0007

European: A61F2/28 A61K38/14 A61K38/18E A61K38/57 A61K9/16H2 A61K9/20H2 A61L27/30R A61L27/54 C03C4/00B K61F2/30A5D K61F2/30L K61L300/252 K61L300/402 K61L300/406 K61L300/410 K61L300/414 K61L300/602 K61L430/02

US: 424/422 424/423 424/424 424/425 424/484 424/486 424/601 424/602 424/724 501/11 501/12 501/32 501/53 501/55 501/63 501/72 514/953 514/965 523/11 523/16

PatBase - US5591453 A



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: TRUSTEES OF UNIV OF PENNSYLVANIA

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Agent(s): BORDEN LADNER GERVAIS LLP; SANFORD TCOLB AND CO

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU

5) Family number: 15254177 (US6482444B)

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Title: SILVER-CONTAINING, SOL/GEL DERIVED BIOGLASS COMPOSITIONS

Abstract: Silver-containing, sol-gel derived bioactive glass compositions and methods of preparation and use thereof are disclosed. The compositions can be in the form of particles, fibers and/or coatings, among other possible forms, and can be used, for example, for treating wounds, improving the success of skin grafts, reducing the inflammatory response and providing anti-bacterial treatments to a patient in need thereof. Anti-bacterial properties can be imparted to implanted materials, such as prosthetic implants, sutures, stents, screws, plates, tubes, and the like, by incorporating the compositions into or onto the implanted materials. The compositions can also be used to prepare devices used for in vitro and ex vivo cell culture.

Classifications:

International (IPC 8-9): A61K9/70 A61L15/42 A61L15/44 A61L17/00 A61L27/10 A61L27/30 A61L27/54 C03C1/00 C03C13/00 C03C14/00 C03C3/078 C03C3/097 C03C4/00 C03C8/08 (Advanced/Invention)

International (IPC 1-7): A01N59/16 A61K33/38 A61K9/70 A61L15/42 A61L15/44 A61L17/00 A61L27/10 A61L27/30 A61L27/54 C03C4/00

CPC: Y02A50/473 C03C1/006 A61K9/70 A61L17/00 A61L17/005 A61L27/10 A61L27/306 A61L27/54 A61L2300/104 A61L2300/402 A61L2300/406 A61L2300/41 A61L2300/412 A61L2300/45 C03C3/078 C03C3/097 C03C4/0007 C03C8/08 C03C13/00 C03C14/008 C03C2204/02

European: A61K9/70 A61L17/00 A61L17/00C A61L27/10 A61L27/30R A61L27/54 C03C1/00D C03C13/00 C03C14/00H C03C3/078 C03C3/097 C03C4/00B C03C8/08 K61L300/104 K61L300/402 K61L300/406 K61L300/410 K61L300/412 K61L300/450 M03C204/02

US: 424/618

Family:

Publication number	Publication date	Application number	Application date
AT302621 E	20050915	AT20000939832T	20000614
AU200054852 A1	20010102	AU20000054852	20000614
AU200054852 A5	20010102	AU20000054852	20000614
CA2377402 AA	20011213	CA20002377402	20000614
CA2377402 C	20110118	CA20002377402	20000614
DE60022197 D1	20050929	DE20006022197	20000614
DE60022197 D1	20050929	DE20006022197T	20000614
DE60022197 T2	20060323	DE20006022197T	20000614
DK1196150 T3	20051121	DK20000939832T	20000614
EP1196150 A1	20020417	EP20000939832	20000614
EP1196150 A4	20030102	EP20000939832	20000614
EP1196150 B1	20050824	EP20000939832	20000614
ES2245644 T3	20060116	ES20000939832T	20000614
PT1196150 T	20051130	PT20000939832T	20000614
US6482444 BA	20021119	US20000593868	20000614
WO0076486 A1	20001221	WO2000US16207	20000614

Priority:

US19990139014P 19990614 US20000593868 20000614 WO2000US16207 20000614

Probable Assignee: IMP COLLEGE INNOVATIONS

Assignee(s): (std): BELLANTONE MARIA ; COLEMAN NICHOLA J ; HENCH LARRY L ; USBIOMATERIALS CORP ; IMP COLLEGE INNOVATIONS ; IMP COLLEGE INNOVATIONS LONDON ; IMP COLLEGE INNOVATIONS LTD

Inventor(s): (std): BELLANTONE MARIA ; COLEMAN NICHOLA J ; HENCH L ; HENCH LARRY L ; MARIA BELLANTONE

Inventor(s): LARRY L HENCH ; NICHOLA J COLEMAN

Agent(s): MARKS AND CLERK

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

6) Family number: 56878259 (US2014191448A)

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Title: METHOD FOR MANUFACTURING GLASS-CERAMIC COMPOSITE

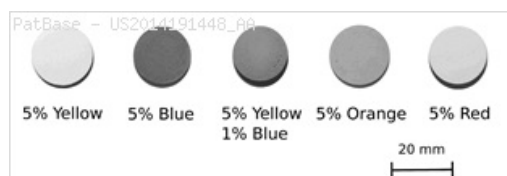
Abstract: The invention provides a method for manufacturing a glass-ceramic composite using natural raw material and waste glasses. The invention provides a method for manufacturing a white glass-ceramic composite using waste glass and a whitening agent. The invention also provides a method for manufacturing a colored glass-ceramic composite using waste glass, the whitening agent and a coloring agent.

Classifications:

International (IPC 8-9): C03B19/06 C03C1/00 C03C10/00 C03C10/06 C03C10/16 C03C14/00 C04B41/80 (Advanced/Invention)

CPC: C04B41/80 C03B19/06 C03C1/002 C03C14/004 C03C2214/04 C03C2214/20 C03C2214/30

US: 1/1 264/660

**Family:**

Publication number	Publication date	Application number	Application date
EP2752394 A1	20140709	EP20130157610	20130304
US2014191448 AA	20140710	US20130736242	20130108
US9321695 BB	20160426	US20130736242	20130108

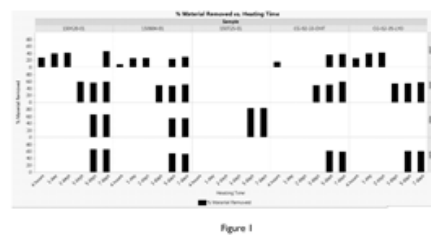
Priority:

Probable Assignee: KING ABDUL AZIZ CITY FOR SCIENCE AND TECHNOLOGY KACST**Assignee(s):** (std): KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY KACST ; KING ABDULAZIZ CITY SCI AND TECH ; TECHNOLOGY KACST KING ABDUL AZIZ CITY FOR SCIENCE AND ; UNIVERSITA DI PADOVA ; UNIVERSIT DI PADOVA ; KING ABDUL AZIZ CITY FOR SCIENCE AND TECHNOLOGY KACST**Inventor(s):** (std): MARANGONI MAURO ; ALAJMI AMER M ; BERNARDO ENRICO ; BINHUSSAIN MOHAMMED ; BINMAJED MAJED A ; ATALASI HAMAD H ; COLOMBO PAOLO ; BINHUSSAIN MOHAMMED A**Agent(s):** GODDAR HEINZ J; TIMBERLINE PATENT LAW GROUP PLLC**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR**7) Family number: 56825269** (US2014271912A)

© PatBase

Title: SODIUM CONTAINING SOL-GEL DERIVED BIOACTIVE GLASSES AND USES THEREOF INCLUDING HEMOSTASIS**Abstract:** A sol-gel bioactive glass precursor, method for making sol-gel glasses, resultant sol-gel bioactive glasses, and methods of use thereof which include introducing Na₂O into the glass network during the sol-gel process through the use of Na-ethoxide, NaCl, or sodium silicate rather than sodium nitrate. Medical and industrial uses of such glasses.**Classifications:****International (IPC 8-9):** A61K31/216 A61K31/415 A61K31/4439 A61K31/454 A61K31/58 A61K31/65 A61K33/00 A61K33/08 A61K33/14 A61K33/22 A61K33/42 A61K38/39 A61K45/06 A61K8/25 A61K9/00 A61L15/18 A61L26/00 A61L27/10 A61L27/12 A61L27/52 A61L27/54 A61L27/56 A61P17/00 A61P17/02 A61P19/00 A61P19/08 A61P3/00 A61P7/04 A61Q11/00 C03B8/02 C03C3/06 C03C3/078 C03C3/097 C03C3/19 C03C4/00 C08K9/06 C12N5/077 C3C3/078 C8K9/06 (Advanced/Invention); A61L24/02 C03B19/02 (Advanced/Non-invention)**CPC:** A61K33/08 A61K38/39 A61K33/14 A61K33/22 A61L26/0066 A61L26/0085 C03C3/19 A61K2300/00 A61L27/10 A61L27/52 A61L2400/04 A61L2430/02 C03C1/006 A61L2430/34 C03B19/12 C03B32/02 C03C10/0009 C03C2203/26 A61K31/216 A61K31/415 A61K31/4439 A61K31/454 A61K31/58 A61K31/65 A61K45/06 A61K8/25 A61L27/12 A61Q11/00 C03B19/02 C03C2204/00 A61L26/0004 A61L27/54 A61L27/56 C03C3/097 C03C4/0007**US:** 1/1 424/602

PatBase - W017176724_A1



Title: BIOACTIVE GLASS COMPOSITION, ITS APPLICATIONS AND RESPECTIVE PREPARATION METHODS

Abstract: The present invention relates to development of bioactive glass/glass-ceramic composition that are able to promote a fast deposition layer of carbonated hydroxyapatite upon immersion in simulated body fluid (SBF) for time periods as short as one hour. Such composition might include fluorides, and a variety of oxides (or their precursor compounds), such as Na₂O-Ag₂O-SrO-CaO-MgO-ZnO-P₂O₅-SiO₂-Bi₂O₃-B₂O₃-CaF₂, be prepared by the melt route or by the sol-gel process, with the specific composition and the preparation route selected according to the intended functionalities, which can present controlled biodegradation rate and bactericidal activity. The powders derived from glass melts purred in cold water (frits) may completely densify by sintering at temperatures up to 800 degrees centigrade without devitrification, resulting in bioglass compacts with high flexural strength (~85 MPa). The bioactive glass powders prepared by sol-gel densify at lower temperatures due to their higher specific surface area and reactivity.

Classifications:

International (IPC 8-9): A01N25/08 A01N59/16 A01P3/00 A61F2/28 A61K33/00 A61K33/08 A61K33/16 A61K33/42 A61K6/06 A61K8/19 A61K9/00 A61L27/00 A61L27/10 A61L27/30 A61L27/32 A61L27/58 A61Q11/00 C03C12/00 C03C3/062 C03C3/078 C03C3/097 C03C3/112 C03C4/00 (Advanced/Invention)

International (IPC 1-7): A61L27/10 A61L27/30

CPC: A61K33/08 A61K33/42 A61K33/00 A61K33/16 A61K9/0024 A61L27/10 A61L27/306 A61L27/32 A61L27/58 A61L2400/06 A61L2430/02 A61L2430/12 A61L2430/38

European: A61L27/10 A61L27/30R

US: 1/1 424/489 424/49 424/52 424/601 424/692

PatBase - US2014193499-AA

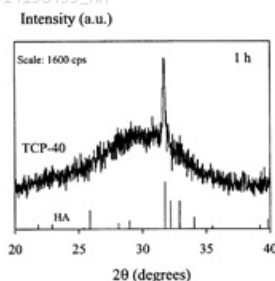


Figure 1. XRD pattern of glass powder T-40 after immersion in SBF solution for 1 h.

Family:

Publication number	Publication date	Application number	Application date
BR112013025742 A2	20170620	BR20131125742	20120405
BR112013025742 A8	20190122	BR20131125742	20120405
CA2832418 AA	20131004	CA20122832418	20120405
EP2695623 A1	20140212	EP20120722517	20120405
JP2014512325 T2	20140522	JP20140503262T	20120405
PT105617 A	20121008	PT20110105617	20110405
US2014193499 AA	20140710	US20120110407	20120405
US9238044 BB	20160119	US20120110407	20120405
WO12137158 A1	20121011	WO20121B51681	20120405

Priority:

PT20110105617 20110405 WO20121B51681 20120405

Probable Assignee: REG4LIFE REGENERATION TECHNOLOGY SA

Assignee(s): (std): DA FONTE FERREIRA JOSE MARIA ; GOEL ASHUTOSH ; REG4LIFE REGENERATION TECH S A ; REG4LIFE REGENERATION TECHNOLOGY S A ; UNIV AVEIRO

Assignee(s): REG4LIFE REGENERATION TECHNOLOGY SA ; UNIVERSIDADE DE AVEIRO

Inventor(s): (std): GOEL ASHUTOSH ; DA FONTE FERREIRA JOSE MARIA ; JOSE MARIA DA FONTE FERREIRA ; ASHUTOSH GOEL ; FERREIRA JOSE MARIA DA FONTE

Agent(s): MOFFAT AND CO; FERREIRA MARIA SILVINA; SATO AND ASSOCIATES; JOHN P; COOPER AND DUNHAM LLP; VIEIRA PEREIRA FERREIRA MARIA SILVINA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: POROUS GLASS CERAMIC COMPOSITION AND METHOD FOR MANUFACTURING THE SAME

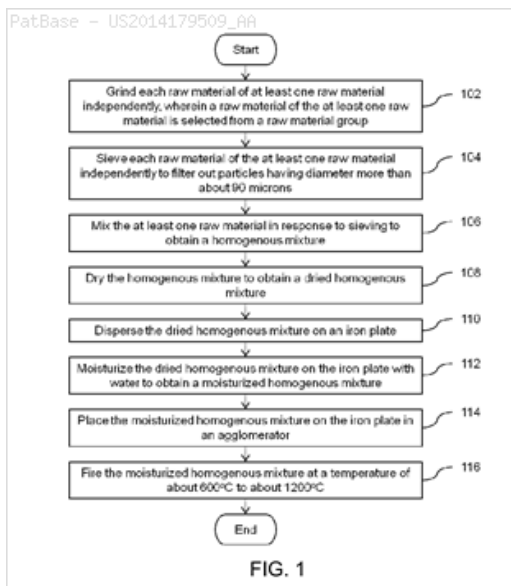
Abstract: The invention provides a porous glass ceramic composition manufactured using conventional raw materials and one or more waste materials, wherein the waste materials are capable of producing glass forming oxides, glass modifying oxides and pore forming oxides. The waste materials are selected from a group that includes cullet, pozzolanic waste and fly ash. The invention also provides a method for manufacturing the porous glass ceramic composition.

Classifications:

International (IPC 8-9): B28B1/00 C03C1/00 C03C10/00 C03C11/00 C03C14/00 C03C27/00 C03C27/02 (Advanced/Invention)

CPC: C03C27/00 C03C27/02 C03C10/0063 B28B1/004 C03C2204/00 C03C14/006 C03C1/002 C03C11/00 C03C14/00 C03C2214/14 C03C2214/20

US: 264/603 264/621 264/628 264/638 264/645 264/651 264/679 427/180 427/201 501/32

**Family:**

Publication number	Publication date	Application number	Application date
EP2752395 A1	20140709	EP20130162767	20130408
US2014179509 AA	20140626	US20120726034	20121222
US2015158760 AA	20150611	US20150622673	20150213

Priority:

US20120726034 20121222 US20150622673 20150213

Probable Assignee: KING ABDUL AZIZ CITY FOR SCIENCE AND TECHNOLOGY KACST**Assignee(s):** (std): KING ABDUL AZIZ CITY FOR SCIENCE AND TECHNOLOGY ; KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY KACST ; UNIVERSIT DI PADOVA ; KING ABDULAZIZ CITY SCI AND TECH**Assignee(s):** UNIVERSITA DI PADOVA ; KING ABDUL AZIZ CITY FOR SCIENCE AND TECHNOLOGY KACST**Inventor(s):** (std): BINHUSSAIN MOHAMMED A ; MARANGONI MAURO ; COLOMBO PAOLO ; ALTAMIMI ABDULAZIZ ; ALAJMI AMER M ; ATALASI HAMAD H ; BERNARDO ENRICO ; BINMAJED MAJED A ; BINHUSSAIN MOHAMMED**Agent(s):** GODDAR HEINZ J**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR**10) Family number: 24903369** (US3365291A)

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Title: Process for producing glass/metal compositions**Abstract:** ABSTRACT OF THE DISCLOSURE A process for preparing a composition of matter comprising intermixed glass and metal and a composition of matter so produced, said process comprising reducing in situ at least one metalliferous compound to metal in a mixture of said metalliferous compound with glass, with subsequent subjecting of the mixture to a sintering operation. In addition, the metalliferous compound can be one which is capable of being converted to the metallic oxide and such metallic oxide is formed prior to reduction to the metal and subsequent sintering.**Classifications:****International (IPC 8-9):** C03C10/00 C03C11/00 C03C14/00 C03C17/06 C03C21/00 C03C27/02 C22C32/00

H01B1/16 (Advanced/Invention);

C03C10/00 C03C11/00 C03C14/00 C03C17/06 C03C21/00 C03C27/00 C22C32/00 H01B1/14 (Core/Invention)

International (IPC 1-7): C03B C03B19/06 C03C17/10 C03C27/00 C03C27/02 C03C3/22 C03C3/30**CPC:** C03C10/0045 C03C11/00 C03C14/004 C03C17/06 C03C21/00 C03C27/02 C03C2214/04 C03C2214/08 C03C2214/20 C22C32/0089 H01B1/16**European:** C03C10/00E2 C03C11/00 C03C14/00D C03C17/06 C03C21/00 C03C27/02 C22C32/00G H01B1/16 M03C214/04 M03C214/08 M03C214/20**US:** 419/1 419/10 419/19**Family:**

Publication number	Publication date	Application number	Application date
AT265557 B	19681010	AT19650010714	19651129
AT267785 B	19690110	AT19670006756	19651129
BE673904 A	19660415		19651217
DE1496531 B1	19710325	DE19651496531	19651110
FR1461946 A	19661209	FR19650043868	19651227
GB1130324 A	19681016	GB19660001349	19660111
LU48493 A	19661028	LU19650048493	19650428
NL6604816 A	19661031	NL19660004816	19660412
SE326003 B	19700713	SE19660005653	19660426
US3365291 A	19680123	US19660531030	19660302

Priority:

LU19650048493 19650428

Probable Assignee: GLAVERBEL**Assignee(s):** (std): GLAVERBEL**Assignee(s):** FIRMA GLAVERBEL

11) Family number: 1391405 (US4021253A)

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Title: METHOD FOR MANUFACTURING GLASS FRIT

Abstract: A method of manufacturing a glass frit for use in the manufacture of uniform glass microspheres to serve as containers for laser fusion fuel to be exposed to laser energy which includes the formation of a glass gel which is then dried, pulverized, and very accurately sized to particles in a range of, for example, 125 to 149 micrometers. The particles contain an occluded material such as urea which expands when heated. The sized particles are washed, dried, and subjected to heat to control the moisture content prior to being introduced into a system to form microspheres.

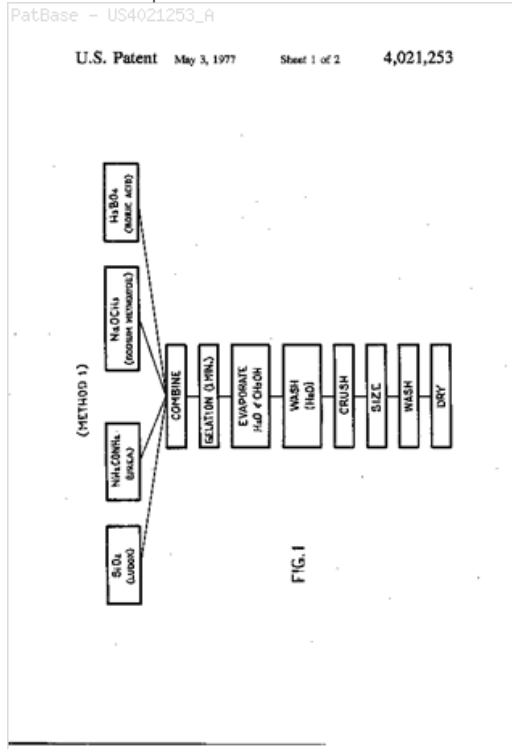
Classifications:**International (IPC 8-9):** C03C11/00 C03C12/00

C03C3/00 (Advanced/Invention);

C03C11/00 C03C12/00 C03C3/00 (Core/Invention)

International (IPC 1-7): C03B19/08 C03B19/10 C03C11/00

C03C12/00 C03C3/04 C03C3/30 G21B1/00

CPC: Y10S65/901 Y10S376/916 C03C11/002 C03C3/00 C03C12/00**European:** C03C11/00B C03C12/00 C03C3/00**US:** 106/53 264/140 376/152 376/916 501/12 501/27 501/30 501/39 501/60 501/65 501/74 65/901**Family:**

Publication number	Publication date	Application number	Application date
CA1086062 A1	19800923	CA19750223760	19750403
DE2514808 A1	19760226	DE19752514808	19750404
DE2514808 C2	19830721	DE19752514808	19750404
FR2266667 A1	19751031	FR19750010586	19750404
FR2266667 B1	19820416	FR19750010586	19750404
GB1493209 A	19771130	GB19750011843	19750321
US4021253 A	19770503	US19740463892	19740405

Priority:

US19740463892 19740405 CA19750223760 19750403

Probable Assignee: KMS FUSION INC**Assignee(s):** (std): KMS FUSION INC**Assignee(s):** KMS FUSION INC ANN ARBOR MICH US ; KMS FUSION INC US ; NOLEN ROBERT L JR ; SOLOMON DAVID E ; BUDRICK RONALD G ; KING FRANK T**Inventor(s):** (std): ANN ARBOR MICH ; BUDRICK RONALD G ; BUDRICK RONALD GEORGE ; KING FRANK T ; KING FRANK TIGHE ; NOLEN JR ROBERT L ; NOLEN JUN ROBERT LEE ; NOLEN ROBERT L JR ; SOLOMON DAVID E ; SOLOMON DAVID EUGENE**Inventor(s):** SOLOMON DAVID EUGENE ANN ARBOR MICH ; SOLOMON DAVID EUGENE ANN ARBOR MICH US ; TIGHE KING FRANK ; NOLEN ROBERT L ; NOLEN JUN ; KING FRANK TIGHE HILLSBORO OREG ; KING FRANK TIGHE HILLSBORO OREG US ; LEE NOLEN JUN ; LEE NOLEN JUN ROBERT ; BUDRICK RONALD GEORGE YPSILANTI TOWNSHIP MICH ; BUDRICK RONALD GEORGE YPSILANTI TOWNSHIP MICH US ; EUGENE SOLOMON DAVID ; GEORGE BUDRICK RONALD**Agent(s):** MARKS AND CLERK**12) Family number: 34209458** (US2009215606A)

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Title: SOL-GEL PROCESS

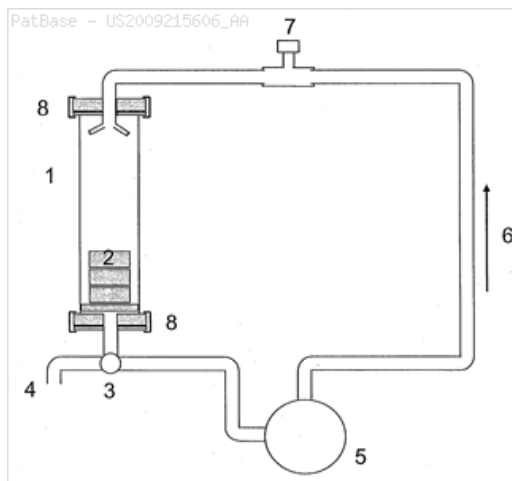
Abstract: Sol-gel process comprising preparation of a solution of at least one compound having the formula $X_m-M-(OR)_n$ -m addition to the solution of the dopants, hydrolysis of the compound to form the sol, possible addition of an oxide, gelling the sol, recycling the liquid and adjusting the pH-value of the liquid in order to fix the dopants in the aquagel, gel drying and densifying to obtain the glass.

Classifications:**International (IPC 8-9):** C03B19/12 C03C1/00 B32B3/26 C01B33/12

C01B33/14 C03B C03B8/00 C03B8/02 C03C C03C3/06 C08G77/02

C08G77/58 (Advanced/Invention);

C03B19/12 C03C1/00 C03C3/06 (Advanced/Non-invention);
B32B3/26 C01B33/00 C03B19/12 C03B8/00 C03B8/02 C03C1/00
C03C3/06 C08G77/00 (Core/Invention);
C03B C03C (Subclass/Invention)
International (IPC 1-7): C03B19/12 C03C1/00 C03C3/06
CPC: C03C1/006 C03C2201/32 C03C2203/36 C03C2203/50
Y10T428/249953 C03B19/12 C03C3/06
European: C03B19/12 C03C1/00D C03C3/06 M03C201/32
M03C203/36 M03C203/50
US: 428/304.4 501/12 65/17.2



Family:

Publication number	Publication date	Application number	Application date
AU2006277984 AA	20070215	AU20060277984	20060802
BRPI0614650 A2	20110412	BR2006PI14650	20060802
CA2618752 AA	20080211	CA20062618752	20060802
CN101238075 A	20080806	CN200680029165	20060802
CN1974447 A	20070606	CN200610108749	20060810
EA200800410 A1	20080829	EA20080000410	20060802
EP1912908 A1	20080423	EP20060792665	20060802
HK1121128 A1	20090417	HK20090100307	20090112
HK1121128 A3	20090417	HK20090100307	20090112
IL189073 A0	20080807	IL20060189073	20060802
IN00553KN2008 A	20081107	IN2008KN00553	20080207
ITNO20050012 A1	20070211	IT2005NO00012	20050810
JP2009504825 T2	20090205	JP20080525554T	20060802
KR20080033520 A	20080416	KR20087005591	20060802
MA29763 B1	20080901	MA20080030720	20080307
NO20081249 A	20080430	NO20080001249	20080310
NO20081249 L	20080430	NO20080001249	20080310
TW200720208 A	20070601	TW20060128882	20060807
US2009215606 AA	20090827	US20060997651	20060802
WO07017454 A1	20070215	WO2006EP64995	20060802
ZA200801358 A	20090128	ZA20080001358	20080208

Priority:

IT2005NO00012 20050810 WO2006EP64995 20060802

Probable Assignee: DEGUSSA NOVARA TECHNOLOGY SPA

Assignee(s): (std): DEGUSSA NOVARA TECHNOLOGY S P A ; DEGUSSA NOVARA TECHNOLOGY SPA ; GINI LUCIA ; GEGUSSA NOVARA TECHNOLOGY SPA ; COSTA LORENZO

Assignee(s): DEGUSSA NOVARA TECHNOLOGY S P

Inventor(s): (std): LORENZO COSTA ; LORENZO GINI LUCIA COSTA ; LUCIA GINI ; GINI LUCIA ; COSTA LORENZO

Inventor(s): GINI LUCIA COSTA LORENZO

Agent(s): SPRUSON AND FERGUSON; MARKS AND CLERK; WEBER WOLFGANG; NTD PATENT AND TRADE MARK AGENCY LTD; SMITH GAMBRELL AND RUSSELL LLP SUITE 3100

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 28423520 (US2006233887A)

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Title: BIOACTIVE MATERIAL FOR USE IN STIMULATING VASCULARIZATION

Abstract: The present invention relates to a bioactive material, particularly one which comprises SiO₂ and CaO and optionally Na₂O and/or P₂O₅, for use in stimulating vascularisation and pharmaceutical compositions, wound dressings, tissue constructs and delivery systems which include such a bioactive material.

Classifications:

International (IPC 8-9): A61K33/42 A61L15/18 A61L15/44

A61L17/00 A61L27/10 A61L27/42 A61L31/12 A61L31/16

C03C3/097 (Advanced/Invention);

A61K33/42 A61L15/16 A61L17/00 A61L27/00 A61L31/12 A61L31/14

C03C3/076 (Core/Invention)

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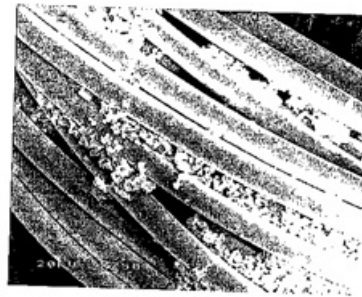


Figure 1

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Publication number	Publication date	Application number	Application date
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GB200323816 A0	20031112	GB20030023816	20031010
US2006233887 AA	20061019	US20040545766	20040213
WO04071542 A1	20040826	WO2004GB00578	20040213
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Priority:

GB20030003371 20030214 GB20030023816 20031010 WO2004GB00578 20040213

Probable Assignee: NORTH WEST LONDON HOSPITALS NHS TRUST**Assignee(s):** (std): NORTH WEST LONDON HOSPITALS NH ; DAY RICHARD MICHAEL ; NORTH WEST LONDON HOSPITALS N**Assignee(s):** NORTH WEST LONDON HOSPITALS N H S TRUST ; NORTH WEST LONDON HOSPITALS NHS TRUST ; NORTH WEST LONDON HOSPITALS NHS TRUST THE ; THE NORTH WEST LONDON HOSPITALS N H S TRUST ; THE NORTH WEST LONDON HOSPITALS NHS TRUST**Inventor(s):** (std): DAY RICHARD M ; DAY RICHARD MICHAEL**Inventor(s):** DAY RICHARD**Agent(s):** EDWARDS AND ANGELL LLP**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**14) Family number: 4834573 (US4788046A)**

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Title: METHOD FOR PRODUCING MATERIALS FOR CO-SINTERING**Abstract:** This invention relates to glass-ceramic packages for integrated circuits containing multi-layer, interconnected thick film wiring patterns obtained by co-sintering a glass-ceramic composite and copper, silver, palladium or gold based conductors at temperatures not exceeding about 1000 DEG C. The dielectric systems disclosed herein contains composites of borosilicate glasses and crystalline fillers which are fabricated by either mixing glass frit and the filler or by a sol-gel coating process.**Classifications:****International (IPC 8-9):** C03C14/00 H01L21/48

H01L23/15 (Advanced/Invention);

A61B19/00 H05K1/00 H05K1/03 H05K1/09 (Advanced/Non-invention);

C03C14/00 H01L21/02 H01L23/12 (Core/Invention);

A61B19/00 H05K1/00 H05K1/03 H05K1/09 (Core/Non-invention)

International (IPC 1-7): B32B18/00 C03C3/064 C04B41/88

C09D11/00 H01L21/48

CPC: H01L2924/0002 H01L23/15 H01L2924/09701 Y10T428/24926

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European: C03C14/00D H01L21/48B2 H01L23/15 K61B19/52F

M03C214/04 M03C214/08 M03C214/20 T05K1/03B T05K1/09D

T05K3/46C8C

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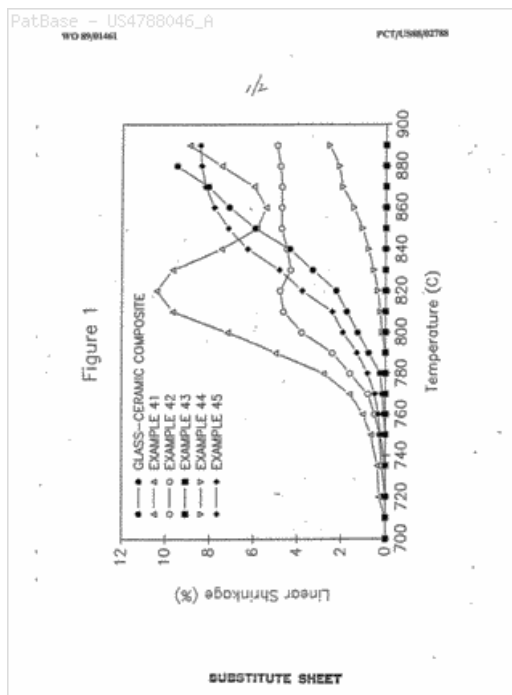
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Priority:

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US19870085951 19870813

Probable Assignee: CERAMICS PROCESS SYSTEMS 840 MEMORIAL DRIVE CAMBRIDGE MA 02139 A CORP OF DE CORP

Assignee(s): (std): CERAMICS PROCESS SYSTEMS ; CERAMICS PROCESS SYSTEMS CORP

Assignee(s): CERAMICS PROCESS SYSTEMS A CORP OF DE CORP ; CERAMICS PROCESS SYSTEMS 840 MEMORIAL DRIVE CAMBRIDGE MA 02139 A CORP OF DE CORP ; CERAMICS PROCESS SYSTEMS 840 MEMORIAL DRIVE CAMBRIDGE MA 02139 CORP ; CERAMICS PROCESS SYSTEMS 840 MEMORIAL DRIVE CAMBRI ; AAVID THERMAL TECHNOLOGIES INC ; ALUMINUM CO ; ALUMINUM CO OF AMERICA A CORP OF PA

Inventor(s): (std): BARRINGER ERIC A ; GRUBER WILLIAM C ; HODGE JAMES D ; KELLEY DONALD J ; LEE RAN RONG ; LIEBERMAN SHELDON I ; SAXTON BRIAN W ; SCHMIDT MARK S ; TORMEY ELLEN S ; WAACK RICHARD

Designated states: AT BE CH DE FR GB IT JP KR LU NL SE

15) Family number: 38521590 (WO09013497A1)

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Title: SOL-GEL BIOACTIVE GLASS

Abstract: The present invention relates to a sol-gel derived bioactive glass comprising less than about 30 ppm of nitrate species. Further claims relate to composites, therapeutic uses and methods of treatment using the same. The invention also relates to a process for preparing a sol-gel derived bioactive glass, said process comprising the steps of: (i) forming a mixture comprising a gelable inorganic base material and at least one calcium component; (ii) subjecting said mixture to a temperature of from about 50 to about 70 degrees centigrade for about 2 to about 36 hours; (iii) drying the material formed in step (ii) by subjecting said material to a temperature of about 80 to about 180 degrees centigrade for about 1 to about 72 hours; (v) stabilising the material formed in step (iii) by subjecting said material to a temperature of about 700 to about 800 degrees centigrade for about 3 to about 24 hours.

Classifications:

International (IPC 8-9): A61L27/00 C03C3/078 C03C3/097 C03C4/00 (Advanced/Invention);

A61L27/00 C03C3/076 C03C4/00 (Core/Invention)

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A61L27/60 A61L31/026 A61L31/128 A61L31/145 A61L31/16

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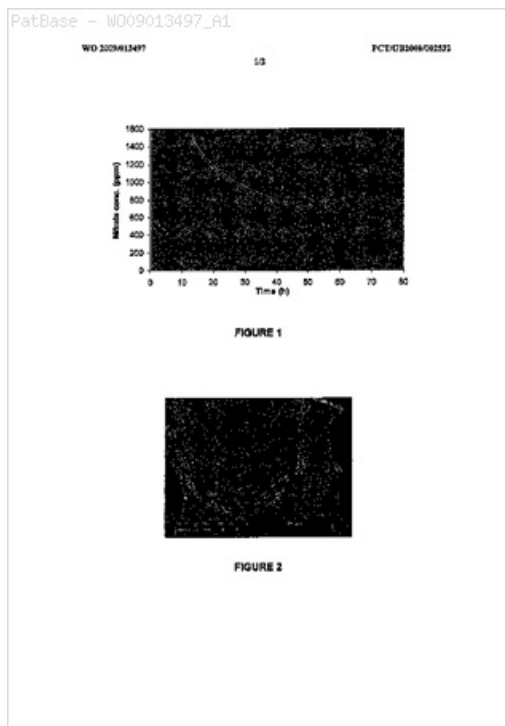
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A61L27/54 A61L27/60 A61L31/02F A61L31/12D6 A61L31/14F

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C03C4/00B K61L300/00 M03C203/20



Family:

Publication number	Publication date	Application number	Application date
GB200714602 A0	20070905	GB20070014602	20070726
WO09013497 A1	20090129	WO2008GB02532	20080724
WO09013512 A1	20090129	WO2008GB02551	20080724

Priority:

GB20070014602 20070726

Probable Assignee: NOVATHERA LTD

Assignee(s): (std): NOVA THERA LTD ; NOVATHERA LTD ; ZHAO XIAOBIN ; TAYLOR MARK ; PERA GROUP ; YAHATHUGODA DILUK ; BAKER SIMON

Assignee(s): NOVA THERA LIMITED

Inventor(s): (std): BAKER SIMON ; ZHAO XIAOBIN ; TAYLOR MARK ; YAHATHUGODA DILUK

Agent(s): CLYDE WATSON ZOE ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

16) Family number: 30117602 (US2002152768A)

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Title: ELECTROPHORETIC DEPOSITION PROCESS FOR MAKING QUARTZ GLASS PRODUCTS

Abstract: Cup-shaped porous silica preforms suitable for manufacture of large 24-inch crucibles used in Czochralski crystal-growing furnaces are produced by a unique electrophoretic casting process using a high-purity aqueous silica slip or slurry having a predetermined particle-size distribution, an average particle size of from 6 to 10 microns and a solids content of from 80 to 85 percent by weight. The slurry contains an electrolyte, such as ammonium hydroxide, has a pH of from 7.5 to 8.5, and can be wet milled at a pH of at least 7 in such manner as to provide the micronized silica particles with excellent electrophoretic mobility, thereby providing a superb process for economical mass production of large pure silica preforms using safe voltages, such as 20 to 40 volts. The electrophoretic casting apparatus can be of the type shown in FIGS. 1 and 2 and includes a permeable porous cup-shaped carbon-graphite mold (2) that serves as a positive anode and an internal reticulate or perforated cathode (3) of similar shape having a thin pervious cover means, such as the shroud 25, to prevent local dilution of the slurry at the cathode.

Classifications:

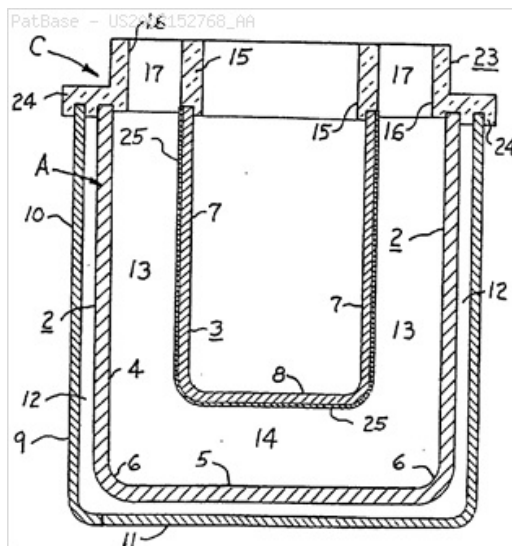
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International (IPC 1-7): B01J23/02 C03B19/06 C03B20/00 C03B37/00 C03B8/02 C03C10/14 C03C3/06

CPC: C03B32/02 C03C10/0009 C30B15/10 C30B35/002 Y10S65/08 C03B19/12 C03B19/06 C03B19/066 C03B20/00 C03B2201/24 Y02P40/57

European: C03B19/06 C03B19/06Q C03B19/12 C03B20/00 C03B32/02 C03C10/00B C30B15/10 C30B35/00B M03B201/24

US: 264/653 264/654 264/660 264/666 264/674 264/681 432/262 501/4 501/53 501/54 501/55 501/56 501/8 65/111 65/17.2 65/17.200P 65/17.3 65/17.5 65/17.6 65/2 65/22 65/30.1 65/32.1 65/33.1 65/33.7 65/475 65/DIG.8



Family:

Publication number	Publication date	Application number	Application date
DE69516408 D1	20000525	DE19956016408	19950629
DE69516408 T2	20000803	DE19956016408T	19950629
EP0767761 A1	19970416	EP19950926329	19950629
EP0767761 B1	20000419	EP19950926329	19950629
JP10502324 T2	19980303	JP19960503525T	19950629
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US5053359 A	19911001	US19900523982	19900516
US5389582 A	19950214	US19910767691	19910930
US6012304 A	20000111	US19970804234	19970222
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Priority:

US19850795645	19851106	US19880225051	19880727	US19890328773	19890324
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Probable Assignee: PYROMATICS INC

Assignee(s): (std): BLACKMER JOHN F ; LOXLEY TED A ; LOXLEY TED ALBERT ; PETERS KLAUS MARKUS ; PYROMATICS INC

Inventor(s): (std): WHEATON HAROLD L ; LOXLEY TED A ; BLACKMER JOHN F ; PETERS KLAUS MARKUS ; LOXLEY TED ALBERT ; BLACKMER JOHN FRANK ; BLACKMER FRANK ; LOXLEY ALBERT

Agent(s): VINCENT A

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE

17) Family number: 28692610 (US2001026915A)

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Title: COLORIMETRIC GLYCOPOLYTHIOPHENE BIOSENSORS

Abstract: The present invention relates to methods and compositions for the direct detection of analytes using observable spectral changes in biopolymeric systems. In particular, the present invention allows for the direct colorimetric detection of analytes using color changes that occur in glycopolythiophene polymer systems in response to selective binding of analytes.

Classifications:

International (IPC 8-9): A61K9/127 B05D3/00 C03C14/00 C03C4/00

C07B61/00 C07H21/00 C07H21/04 C12M1/00 C12N11/00
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G01J3/46 G01N21/27 G01N21/78 G01N33/52 G01N33/53
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G01N33/544 G01N33/566 G01N33/569 G01N33/92 (Advanced/Non-invention);

A61K9/127 C03C14/00 C03C4/00 C07B61/00 C07H21/00 C12M1/00
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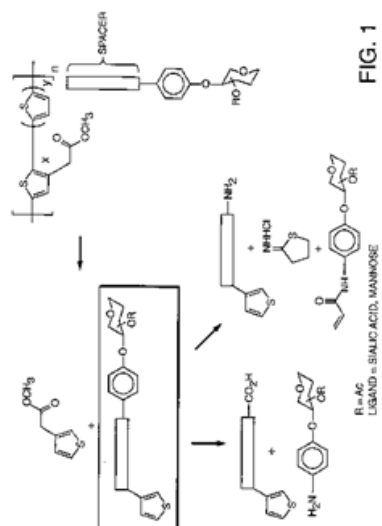
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PatBase - US2001026915_AA

Patent Application Publication Oct. 4, 2001 Sheet 1 of 13 US 2001/0026915 A1



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Publication number	Publication date	Application number	Application date
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AU199718422 A1	19970820	AU19970018422	19970124
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IL125517 A0	19990312	IL19970125517	19970124
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Priority:

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Probable Assignee: REGENT OF UNIV OF CALIFORNIA

Assignee(s): (std): REAGENTS OF UNIV OF ; NAGY JOHN ; UNIV CALIFORNIA ; SANDIA CORP ; SANDIA CORP NEW MEXICO REGENTS ; CHARYCH DEBORAH ; THE UNIV OF CALIFORNIA

Assignee(s): SANDIA NEW MEXICO UNIV OF CALIFORNIA CORP ; YAMANAKA STACEY ; SASAKI DARRYL ; THE UNIV ; CHARYCH DEBORAH H ; ENERGY U S DEPARTMENT OF ; ENERGY UNITED STATES DEPARTMENT OF ; CALIFORNIA THE UNIV ; CALIFORNIA UNIV ; CALIFORNIA UNIV OF REGENTS ; UNIV OF CALIFORNIA ; US DEPARTMENT OF ENERGY PO BOX ; UNIV ; US DEPARTMENT OF ENERGY ; UNITED STATES DEPARTMENT OF ENERGY ; SANDIA NEW MEXICO UNIV CORP ; REAGENTS OF UNIV ; OF CALIFORNIA UNIV ; ENERGY US DEPARTMENT OF PO BOX ; ENERGY US DEPARTMENT OF PO BOX ; REGENT OF UNIV ; ENERGY US DEPARTMENT OF ; ENERGY US DEPARTMENT OF ; ENERGY UNITED STATES DEPARTMENT OF ; REAGENTS OF UNIV OF CALIFORNIA ; REGENT OF UNIV OF CALIFORNIA ; JONAS ULRICH ; REICHERT ANKE

Inventor(s): (std): CHARYCH DEBORAH J ; MYUNG GI BAEK ; CHARYCH DEBORAH H ; JONAS ULRICH ; CHARYCH DEBORAH ; NAGY JON ; SPEVAK WAYNE ; NAGY JOHN ; REICHERT ANKE ; STEVENS RAYMOND ; QUAN CHENG ; SASAKI DARRYL ; YAMANAKA STACEY ; REICHERT ANKE ; STEVENS RAYMOND C ; BAEK MYUNG GI ; STACEY YAMANAKA ; DEBORAH H CHARYCH ; RAYMOND STEVENS ; JOHN NAGY ; DEBORAH CHARYCH ; ULRICH JONAS ; DARRYL SASAKI ; ANKE REICHERT ; CHENG QUAN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SIM AND MCBURNEY; SMART AND BIGGAR; ISHII SADAJI; HIRAKI YUSUKE

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

18) Family number: 1372707 (US4312774A)

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Title: Immobilization of radwastes in glass containers and products formed thereby

Abstract: This invention relates to the immobilization of toxic materials, e.g., radioactive materials, in glass for extremely long periods of time. Toxic materials, such as radioactive wastes, which may be in the form of liquids, or solids dissolved or dispersed in liquids or gases, are deposited in a glass container which is heated to evaporate off non-radioactive volatile materials, if present; to decompose salts, such as nitrates, if any, and to drive off volatile non-radioactive decomposition products, and then to collapse the walls of said container on said radwaste and seal the container and immobilize the contained radwaste, and then burying the resulting product underground or at sea. In another embodiment, the glass container also contains glass particles, e.g., spheres or granules, on which the radwaste solids are deposited. In other embodiments, the glass container can be made of porous glass or non-porous glass, and/or the contained glass particles can be made of porous or non-porous glass or mixtures of porous or non-porous glass, and/or the glass container can be open at one end and closed at the other or open at both ends, and/or the glass container can be closed at one end with a porous or non-porous closure and open at the other end or closed at the other end with a porous closure. When a porous glass container and/or porous glass particles are used, the radwaste deposits within the pores of the glass which are closed during the subsequent heating step after non-radioactive volatiles have been driven off and prior to sealing the container. There results a substantially impervious glass article in which the radwaste is entrapped and which is highly resistant to leaching action. The products resulting from the use of porous glass, as the container, contents, or both, can be used as sources of radioactivity for a variety of applications in medicine, sterilization, food preservation and any other application where radiation can be beneficially employed.

Classifications:

International (IPC 8-9): B65D85/84 B65D88/76 B65D88/78 C03C11/00 C03C3/06 G21F9/00 G21F9/02 G21F9/16 G21F9/30 G21F9/36 (Advanced/Invention);

C03C11/00 C03C3/06 G21F9/00 G21F9/16 G21F9/30 G21F9/34 (Core/Invention)

International (IPC 1-7): A62D3/00 A62D5/00 B65D85/84 B65D88/76 B65D88/78 C03C17/02 C03C3/08 C03C3/30 G21F9/00 G21F9/16 G21F9/34 G21F9/36

CPC: G21F9/02 G21F9/36 C03C1/002 C03C1/026 C03C3/06 C03C3/061 C03C3/089 C03C11/005 C03C21/001 C03C23/0095 C03C2201/10 C03C2201/20 C03C2201/23 C03C2201/3411 C03C2201/3423 C03C2201/3429 C03C2201/40 C03C2201/42 C03C2201/50 C03C2201/54 G21F9/305 C03C2201/60

European: C03C1/00B C03C1/02F C03C11/00D C03C21/00B C03C23/00S C03C3/06 C03C3/06B C03C3/089 G21F9/02 G21F9/30B2D G21F9/36 M03C201/10 M03C201/20 M03C201/23 M03C201/34C M03C201/34E M03C201/34F M03C201/40 M03C201/42 M03C201/50 M03C201/54 M03C201/60

US: 210/682 250/493.1 252/179 252/629 252/631 264/0.5 405/129.3 405/129.45 502/11 502/152 502/250 588/12 588/13 588/14 588/16 65/30.13 65/30.14 65/301.3 976/DIG.385 976/DIG.394

Family:

Publication number	Publication date	Application number	Application date
AU197952508 A1	19800515	AU19790052508	19791105
AU533665 B2	19831208	AU19790052508	19791105

BE879881 A	19800507	BE19790198011	19791107
CA1125528 A1	19820615	CA19790337836	19791017
CH651956 A	19851015	CH19790010015	19791108
DE2945322 A1	19800529	DE19792945322	19791109
FR2441246 A1	19800606	FR19790027445	19791107
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JP55071999 A2	19800530	JP19790144575	19791109
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US4528011 A	19850709	US19810330336	19811214
US4544499 A	19851001	US19820386215	19820607
ZA7806514 A	19800730	ZA19780006514	19781120

Priority:

US19780959220 19781109 US19790034567 19790430 US19790065752 19790810
CA19790337836 19791017 US19810330336 19811214 US19820386215 19820607

Probable Assignee: MACEDO P B

Assignee(s): (std): LITOVITZ T ; LITOVITZ THEODORE A ; MACEDO PEDRO B ; MD V ST A ; MACEDO PEDRO ; SILVER SPRING

Assignee(s): THEODORE A LITOVITZ ; SIMMONS JOSEPH H ; SIMMONS CATHERINE J ; TRAN DANH C ; LAGAKOS NICHOLAS ; MACEDO P B AND LITOVITZ T A ; MACEDO P B ; MACEDO P ; PEDRO B MACEDO ; MACEDO PB AND LITOVITZ TA

Inventor(s): (std): MACEDO PEDRO B ; SIMMONS CATHERINE J ; SIMMONS JOSEPH ; SIMMONS JOSEPH H ; TRAN DANH C ; TRAN DANH CONG ; TRAN D ; SIMMONS J ; SIMMONS C ; LAGAKOS NICHOLAS ; LITOVITZ THEODORE A ; PEDRO BII MASEDO ; NIKORAI RAGAKOSU ; MACEDO P ; LAGAKOS N ; KIYASARIN JIEI SAIMONZU ; JIYOSUFU EICHI SAIMONZU ; DAN KONGU TORAN

Inventor(s): CONG TRAN DANH ; CATHERINE J SIMMONS ; B MACEDO PEDRO ; J SIMMONS CATHERINE ; H SIMMONS JOSEPH ; DANH CONG TRAN ; JOSEPH H SIMMONS ; NICHOLAS LAGAKOS ; MACEBO PEDRO B ; PEDRO B MACEDO

Agent(s): PHILLIPS ORMONDE AND FITZPATRICK; SIM AND MCBURNEY; WOLFF BREGMAN AND GOLLER

19) Family number: 53038737 (WO13023782A2)

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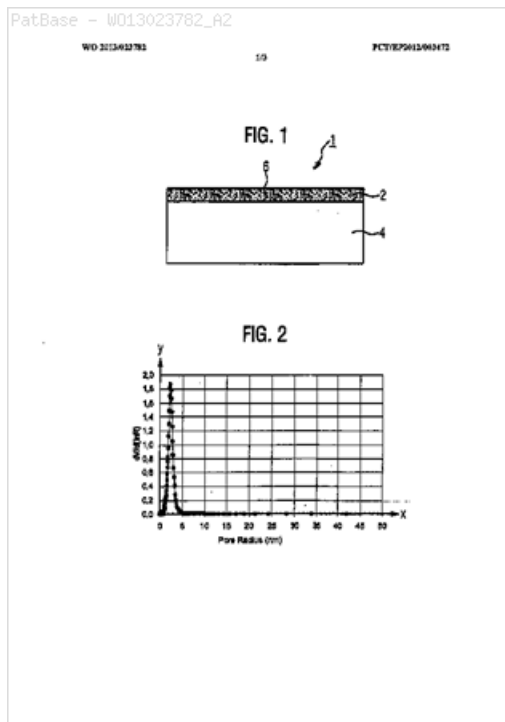
Title: GLASS COMPRISING AN ANTI-CORROSION LAYER AND METHOD FOR PRODUCING THE GLASS

Abstract: The invention aims at making glass (1) that is provided with an anti-corrosion layer (2) particularly suitable in particular for technical applications and protecting same against corrosion effects and especially against undesired leaching in an especially effective manner by means of the applied anti-corrosion layer (2). For this purpose, according to the invention, the anti-corrosion layer (2) is porous and has a porosity, measured by the share of the pore volume to the total volume of the layer (2), of at least 30 percent.

Classifications:

International (IPC 8-9): C03C17/00 (Advanced/Invention)

CPC: C03C17/007 C03C2217/213 C03C2217/425 C03C2218/113



Family:

Publication number	Publication date	Application number	Application date
EP2559670 A1	20130220	EP20110006714	20110817
WO13023782 A2	20130221	WO2012EP03472	20120815
WO13023782 A3	20130530	WO2012EP03472	20120815

Priority:

EP20110006714 20110817

Probable Assignee: CT SOLAR GLAS GMBH AND CO KG

Assignee(s): (std): CT SOLAR GLAS GMBH AND CO KG ; GLAUBITT WALTHER ; HOFMANN THOMAS ; SONTHEIMER THOMAS

Assignee(s): CENTROSOLAR GLAS GMBH AND CO KG

Inventor(s): (std): GLAUBITT WALTHER ; HOFMANN THOMAS ; HOFMANN THOMAS DR ; SONTHEIMER THOMAS

Agent(s): Walkenhorst Andreas; WALKENHORST ANDREAS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

20) Family number: 30162823 (US4567104A) © PatBase

Title: HIGH ENERGY BEAM COLORED GLASSES EXHIBITING INSENSITIVITY TO ACTINIC RADIATION

Abstract: The invention relates to high energy beam-sensitive glass articles exhibiting insensitivity and/or inertness to actinic radiation, i.e., glass articles which are darkened and/or colored within a thin surface layer of, e.g., about 0.1-3 μm upon exposure to a high energy beam, electron beam, and ion beams in particular, without a subsequent development step, and which need no fixing to stabilize the colored image, since both the recorded image and the glass article are insensitive to radiation in the spectral range of uv and longer wavelengths. More particularly, the instant invention is concerned with Ag+ ion-exchanged glass articles having base glass within alkali metal silicate composition fields containing at least one of the oxides of transition metals which have one to four d-electrons in an atomic state. Whereas the base glass composition can be varied widely, spontaneous reduction as well as photo-reduction of Ag+ ions are inhibited and/or eliminated due to the presence of said transition metal oxides in the glass article. The product of the invention is suitable for use as recording and archival storage medium and as phototools. The recorded images and/or masking patterns are up-datable, can be any single color seen in the visible spectrum, and is erasable by heat at temperatures above about 200 DEG C.

Classifications:

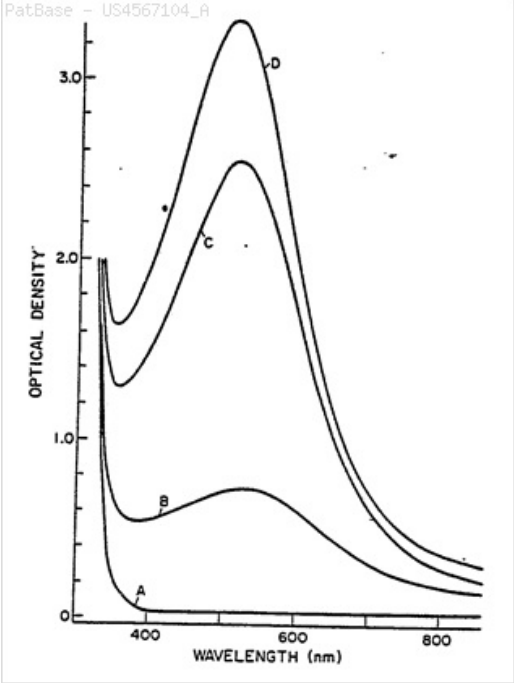
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C03C3/11 C03C3/112 C03C4/00 C03C4/04 C03C4/06 G02F3/00
G03C1/72 G03C1/725 G03F1/00 G11B7/24 G11B7/243 H01L21/027
H01L21/30 (Advanced/Invention);
G02F1/1335 (Advanced/Non-invention);
B32B17/00 B32B17/06 B41M5/26 C03C21/00 C03C23/00
C03C3/076 C03C4/00 G02F3/00 G03C1/72 G03F1/00 G11B7/24
H01L21/02 (Core/Invention);
G02F1/13 (Core/Non-invention)

International (IPC 1-7): B32B17/00 B32B17/06 B41M5/26
C03B20/00 C03C15/00 C03C21/00 C03C3/083 C03C3/095
C03C3/11 C03C3/112 C03C3/20 C03C4/00 C03C4/04 C03C4/06
G02B6/00 G02F3/00 G03C1/02 G03C1/04 G03C1/36 G03C1/49
G03C1/72 G03C1/725 G03C1/733 G03C1/78 G03F1/00 G11B7/24
H01L21/027 H01L21/30

CPC: Y10S428/913 Y10T428/315 C03C23/0005 C03C3/085
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European: C03C21/00B4 C03C23/00B C03C23/00D C03C3/085
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S11B7/243B6 S11B7/243D2

US: 359/885 385/129 385/142 428/410 428/426 428/428 428/701
428/913 430/13 430/14 430/19 430/323 430/346 430/523 430/567
430/608 430/616 430/617 501/13 501/32 501/55 501/56 501/57
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G9B/007.142 G9B/7.142



Family:

Publication number	Publication date	Application number	Application date
AT69010 E	19911115	AT19840902635T	19840612
CA1260753 A1	19890926	CA19840456960	19840619
DE3485227 D1	19911205	DE19843485227	19840612
EP0148238 A1	19850717	EP19840902635	19840612
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EP0148238 B1	19911030	EP19840902635	19840612
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JP2584608 B2	19970226	JP19840502613T	19840612
JP60501950 T2	19851114	JP19840502613T	19840612
KR0120740 B1	19971027	KR19900072222	19901008
KR19917000206 A	19910314	KR19907002222	19900116
US4567104 A	19860128	US19830507681	19830624
US4670366 A	19870602	US19840619809	19840612
US4894303 A	19900116	US19870057349	19870601
US5078771 A	19920107	US19890436418	19891114
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WO9009356 A1	19900823	WO1990US00368	19900116

Priority:

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EP19900200845 19840612	EP19840902635 19840612	WO1984US00919 19840612
US19840619809 19840612	CA19840456960 19840619	US19870057349 19870601
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Probable Assignee: CANYON MATERIALS INC**Assignee(s):** (std): CANYON MATERIALS RESEARCH AND ENGINEERING ; CANYON MATERIALS INC ; CANYON MATERIALS RES AND ENG ; CANYON MATERIALS RES AND ENGINEE**Assignee(s):** CANYON MATERIALS RESEARCH AND ENGINEERING 4000 FOU ; CANYON MATERIALS RESEARCH AND ENGINEERING INC ; CAYON MATERIALS RESEARCH AND ENGINEERING ; CAYON MATERIALS RESEARCH AND ENGINEERING A LTD ; KYANYON MATERIARUZU INC ; WU CHE KUANG ; CAYON MATERIALS RESEARCH AND ENGINEERING A PARTNERSHIP OF CA LTD**Inventor(s):** (std): WU CHE KUANG**Inventor(s):** UU CHEEKUWAN**Agent(s):** GOWLING LAFLEUR HENDERSON LLP**Designated states:** AT BE BR CH DE DK ES FR GB IT JP KR LI LU NL SE**21) Family number: 30088827** (US2002058576A)

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Title: INORGANIC MATRIX COMPOSITION AND COMPOSITES INCORPORATING THE MATRIX COMPOSITION

Abstract: A modified alkali silicate composition for forming an inorganic network matrix. The modified alkali silicate matrix is made by reacting an alkali silicate (or its precursors such as an alkali hydroxide, a SiO₂ source and water), an acidic inorganic composition, such as a reactive glass, water and optional fillers, additives and processing aids. An inorganic matrix composite can be prepared by applying a slurry of the modified aqueous alkali silicate composition to a reinforcing medium and applying the temperature and pressure necessary to consolidate the desired form. The composite can be shaped by compression molding as well as other known fabrication methods. A notable aspect of the invention is that, although composite and neat resin components prepared from the invention can exhibit excellent dimensional stability to 1000 degrees centigrade and higher, they can be prepared at the lower temperatures and pressures typical to organic polymer processing.

Classifications:

International (IPC 8-9): B29C71/00 B32B13/02 B32B17/06 B32B33/00 B32B37/00 B32B9/04 C03C1/00 C03C25/42 C03C3/064 C03C3/14 C03C3/16 C03C3/19 C04B11/28 C04B12/04 C04B14/10 C04B14/22 C04B14/30 C04B14/36 C04B14/38 C04B16/06 C04B24/24 C04B28/00 C04B28/26 E04B1/94 E06B5/16 (Advanced/Invention); C03C13/00 C04B11/28 (Advanced/Non-invention); B29C71/00 B32B13/00 B32B17/06 B32B33/00 B32B9/04 C03C1/00 C03C25/42 C03C3/062 C03C3/12 C04B14/02 C04B28/00 E04B1/94 E06B5/10 (Core/Invention); C04B (Subclass/Invention)

International (IPC 1-7): B27N9/00 B28B3/00 B32B31/00 B32B33/00 B32B5/12 C03C14/00 C03C3/19 C04B12/04 C04B14/22 C04B28/00 C04B28/26 C04B35/16 C09D1/02 E04B1/94

CPC: B32B1/08 B32B5/18 B32B5/26 B32B15/02 B32B15/18 B32B17/02 C09K21/02 Y10T428/25 Y10T428/252 B32B2307/3065 C04B2111/00491 C04B2111/00568 C04B2111/00612 C04B2111/285 Y02W30/94 C04B28/008 B32B33/00 C04B14/22 C04B20/1033 C04B20/1062 C04B20/1074 C04B2111/28 C04B2111/92 E04B1/944 Y02P40/165 Y10T428/249928 C04B28/26 C03C1/006 C03C3/064 C03C3/19 C03C25/42 C04B28/006 C04B2111/00112

European: B32B1/08 B32B15/02 B32B15/18 B32B17/02 B32B33/00 B32B5/18 B32B5/26 C03C1/00D C03C25/42 C03C3/064 C03C3/19 C04B14/22 C04B20/10B4D C04B20/10F2 C04B20/10F8 C04B28/00G C04B28/00G2 C04B28/26 C09K21/02 E04B1/94B2A L32B307/306B M04B111/00M10 M04B111/00T2B M04B111/00T2W M04B111/00T6 M04B111/28 M04B111/28B M04B111/92

US: 106/600 106/600S 156/443 252/62 264/101 264/102 264/234 264/319 264/328.1 264/333 264/621 264/640 264/641 264/642 264/643 427/372.2 427/372.200S 427/376.1 428/293.4 428/293.400P 428/293.400S 428/323 428/323S 428/325 428/325S 428/426 428/426P 428/446 428/446P 428/446S 428/454 428/454S 428/921 428/921S 501/32 501/32P 501/32S 501/35 501/45 501/45S 501/47 501/47S 501/49

PatBase - W004110931_H1

W004110931

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PC110200411285

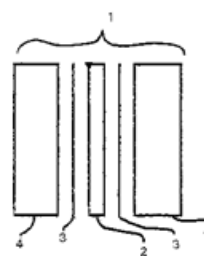


FIG. 1

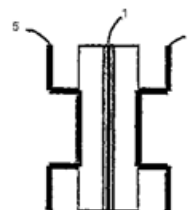


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
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AU2001292841 BB	20061012	AU20010292841	20010918
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AU2004247667 AA	20041223	AU20040247667	20040603
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CA2445405 AA	20031024	CA20012445405	20010918
CA2525927 AA	20051115	CA20042525927	20040603
CN1254451 C	20060503	CN20018019198	20010918
CN1474790 A	20040211	CN20018019198	20010918
CN1812943 A	20060802	CN200480015712	20040603
EP1328489 A2	20030723	EP20010973239	20010918
EP1409432 A2	20040421	EP20010973240	20010918
EP1633936 A1	20060315	EP20040753993	20040603
EP1772439 A2	20070411	EP20060026873	20010918
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IL172107 A0	20090211	IL20040172107	20040603
IN05301DN2005 A	20091002	IN2005DN05301	20051118
JP2006527152 T2	20061130	JP20060515067T	20040603
MXPA03003460 A1	20041206	MX2003PA03460	20010918
MXPA05013171 A1	20060317	MX2005PA13171	20040603
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NO20033100 A0	20030707	NO20030003100	20030707
NO20033100 L	20030707	NO20030003100	20030707
NZ525404 A	20051125	NZ20010525404	20010918
NZ528062 A	20051125	NZ20010528062	20010918
NZ543485 A	20070629	NZ20040543485	20040603
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RU2329898 C2	20080727	RU20050137869	20040603
US2002058576 AA	20020516	US20010871998	20010601
US2004182285 AA	20040923	US20040777885	20040212
US2005003214 AA	20050106	US20040897293	20040721
US2005003947 AA	20050106	US20040897298	20040721
US2005022698 AA	20050203	US20040929247	20040830
US2005031843 AA	20050210	US20040858624	20040602
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US6899837 BB	20050531	US20040897293	20040721
US6966945 BA	20051122	US20010871765	20010601
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US7094285 BB	20060822	US20040777885	20040212
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WO0224596 A2	20020328	WO2001US29375	20010918
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WO04110951 A1	20041223	WO2004US17285	20040603
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Priority:

US20000233952P 20000920	US20000233985P 20000920	US20010871765 20010601
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US20040897298 20040721	US20040929247 20040830	US20070978920 20071030

Probable Assignee: GOODRICH CORP

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Assignee(s): CARTWRIGHT CRAIG J ; GUDRICH KORPOREJSHN

Inventor(s): (std): CARTWRIGHT CRAIG L ; MAZANY ANTHONY M ; ROBINSON JOHN W ; ANTHONY M MAZANY ; JOHN W ROBINSON ; CRAIG L CARTWRIGHT ; ROBINSON JOHN W MAZANY ANTHONY ; ROBINSON CRAIG L CARTWRIGHT AN ; MAZANI EHNTONI M ; ROBINSON DZHON V ; KARTRAJT KREJG L ; CARTWRIGHT CRAIG J

Inventor(s): CRAIG L CARTWRIGHT ANTHONY M MAZANY JOHN W ROBINSON ; ROBINSON JOHN ; CARTWRIGHT CRAIG ; MAZANY ANTHONY ; ROBINSON JOHN W MAZANY ANTHONY M CARTWRIGHT CRAIG ; CRAIG L CARTWRIGHT ANTHONY M MAZANY JOHN W ROBINSON ; CRAIG L CARTWRIGHT ANTHONY M MAZANY JOHN W... ; ROBINSON JOHN W MAZANY ANTHONY M CARTWRIGHT

Agent(s): GRIFFITH HACK; FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; OGILVY RENAULT LLP SENCRL SRL; RIDOUT AND MAYBEE LLP; REINHOLD COHN AND PARTNERS; OHSHIMA MASATAKA; HUDAK SHUNK AND FARINE CO LPA; GOODRICH CORP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

22) Family number: 58068828 (US2017239292A)

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Title: GALLIUM-BASED GLASS COMPOSITION

Abstract: A gallium silica glass composition is described. The glass can be used in variety of biomedical applications

Classifications:

International (IPC 8-9): A61F2/06 A61K31/02 A61K31/12 A61K33/00 A61K33/06 A61K33/08 A61K33/10 A61K33/24 A61K33/42 A61K47/02 A61K47/12 A61K47/36 A61K9/00 A61L24/00 A61L24/02 A61L24/08 A61L27/10 A61L27/12 A61L27/20 A61L27/40 A61L27/44 A61L27/46 A61L27/50 A61L27/52 A61L27/54 A61L27/58 A61L29/02 A61L29/04 A61L29/06 A61L29/12 A61L29/14 A61L31/02 A61L31/04 A61L31/12 A61L31/14 A61M25/10 A61P9/00 C03C14/00 C03C3/062 C03C3/11 C03C4/00 C03C8/08 C08K3/40 (Advanced/Invention)

CPC: A61F2/06 A61K33/24 A61K47/36 A61K47/12 A61L27/446 A61L27/20 A61L27/10 A61L27/507 A61L27/52 A61L24/0089 A61L24/08 A61L24/02 A61L24/0015 A61L24/0031 A61L27/54 A61K9/0024 A61K33/42 A61K33/08 A61K33/06 A61K33/10 A61L27/46 A61L24/0084 A61M25/1018 A61L2300/404 A61L2430/36 A61K33/00 A61L2400/06 C08L5/04 A61L31/026 A61L31/128 C03C3/11 C03C4/0007 C03C4/0035 C03C14/008 C03C2214/12 C03C2214/17 C08K3/40

US: 424/602

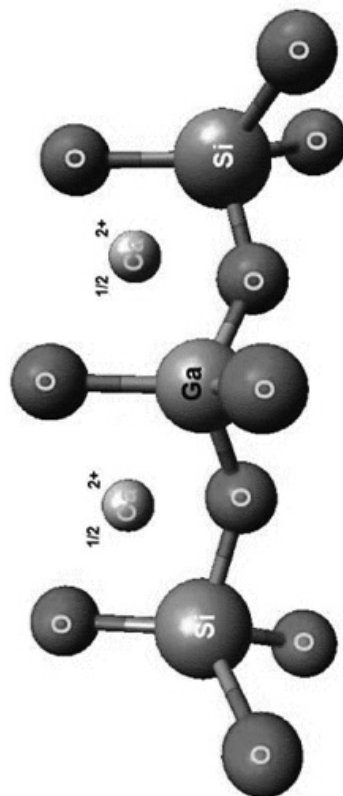


Figure 1A

Family:

Publication number	Publication date	Application number	Application date
EP3204116 A1	20170816	EP20150778327	20151009
GB201417984 A0	20141126	GB20140017984	20141010
GB2531068 A1	20160413	GB20140017984	20141010
JP2017531610 T2	20171026	JP20170518976T	20151009
US2017239292 AA	20170824	US20150517894	20151009
US2019134082 AA	20190509	US20180180910	20181105
US10149861 BB	20181211	US20150517894	20151009
WO16055650 A1	20160414	WO2015EP73477	20151009

Priority:

GB20140017984 20141010 WO2015EP73477 20151009 US20170517894 20170407
 US20180180910 20181105

Probable Assignee: DUBLIN CITY UNIV

Assignee(s): (std): DUBLIN CITY UNIV ; UNIV DUBLIN CITY

Inventor(s): (std): CLARKIN OWEN ; LALLY CAITRIONA ; CAITRIONA LALLY ; OWEN CLARKIN

Agent(s): HANNA MOORE AND CURLEY; TANI AND ABE PC; COZEN O CONNOR; HANNA MOORE AND CURLEY ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

23) Family number: 33811834 (WO08032054A2)

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Title: COMPOSITE MATERIAL

Abstract: The present invention provides a composite material comprising a tissue matrix compound and a bioactive glass. The invention also relates to pharmaceutical and cosmetic compositions containing the composite material. Further aspects of the invention relate to the use of the composite material for treating a skin blemish or augmenting soft tissue.

Classifications:

International (IPC 8-9): A61K33/00 A61K38/01 A61K38/39
 A61K8/25 A61K8/64 A61K8/65 A61L27/10 A61L27/22 A61L27/24
 A61L27/42 A61L27/44 A61L27/50 A61P13/00 A61P17/00 A61Q19/00
 C03C4/00 (Advanced/Invention);
 A61K33/00 A61K38/01 A61K38/39 A61K8/19 A61K8/30 A61L27/00
 A61P13/00 A61P17/00 A61Q19/00 C03C4/00 (Core/Invention)

CPC: A61K33/38 A61K33/42 A61L27/446

European: A61K33/38 A61K33/42 A61L27/44R

WO 2008/023445

PCT/GB2007/003445

(1/2)



FIGURE 1

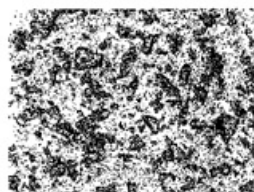


FIGURE 2

Family:

Publication number	Publication date	Application number	Application date
GB200618215 A0	20061025	GB20060018215	20060915
WO08032054 A2	20080320	WO2007GB03445	20070912
WO08032054 A3	20081002	WO2007GB03445	20070912

Priority:

GB20060018215 20060915

Probable Assignee: NOVATHERA LTD**Assignee(s):** (std): NOVATHERA LTD ; ROBERTS GARETH ; THOMSON IAN ; ZHAO XIAOBIN**Assignee(s):** NOVATHERA LIMITED**Inventor(s):** (std): ZHAO XIAOBIN ; THOMSON IAN ; ROBERTS GARETH**Agent(s):** CLYDE WATSON ZOE ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

24) Family number: 1372836 (US4469628A)

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Title: Fixation by ion exchange of toxic materials in a glass matrix

Abstract: This invention relates to the immobilization of toxic, e.g., radioactive, materials in a silicate glass or silica gel matrix for extremely long periods of time. Toxic materials, such as radioactive wastes containing radioactive cations, which may be in the form of liquids, or solids dissolved or dispersed in liquids or gases, are incorporated into a glass or silica gel matrix, having alkali metal, Group Ib metal and/or ammonium cations bonded to silicon atoms of said glass or silica gel through divalent oxygen linkages, by a process which involves the ion exchange of said toxic or radioactive cations with said alkali metal, Group Ib metal and/or ammonium cations to bind said toxic or radioactive cations to silicon atoms of said glass or silica gel through said silicon-bonded divalent oxygen linkages. Thereafter, the resulting glass or silica gel now characterized by toxic or radioactive cations bonded to silicon atoms through divalent oxygen linkages can be stored, or packaged in suitable containers, or disposed of as by burial, and/or sintered to collapse the pores thereof.

Classifications:

International (IPC 8-9): B01D15/00 B01J39/02 B01J39/10 B01J39/14
B09B3/00 C02F1/42 G21F9/12 G21F9/16

G21F9/30 (Advanced/Invention);

B01D15/00 C02F1/42 G21F9/16 (Advanced/Non-invention);

B01D15/00 B01J39/00 C02F1/42 G21F9/12 G21F9/16

G21F9/30 (Core/Invention)

International (IPC 1-7): A62D3/00 A62D5/00 B01D15/00 B01J1/04

B01J39/00 B01J39/02 B01J39/10 B01J39/14 B01J47/00 B09B3/00

C01B33/12 C02F1/42 C03C21/00 C03C3/04 C03C3/30 C03C8/24

C09K11/04 C09K3/00 G21C19/46 G21F9/02 G21F9/12 G21F9/16

G21F9/34

CPC: B01J39/14 C03C1/002 C03C1/026 C03C3/06 C03C3/061

C03C3/089 C03C11/005 C03C21/001 C03C23/0095 C03C2201/10

C03C2201/20 C03C2201/23 C03C2201/3435 C03C2201/40

C03C2201/50 G21F9/12 G21F9/305

European: B01J39/14 C03C1/00B C03C1/02F C03C11/00D

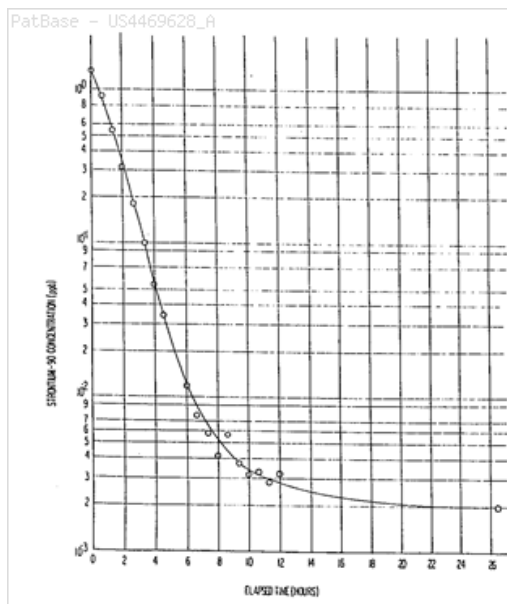
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M03C201/34G M03C201/40 M03C201/50

US: 210/682 210/688 252/179 252/629 501/53 501/5B 588/11

588/13 65/30.1 976/DIG.385



Family:

Publication number	Publication date	Application number	Application date
AU197952650 A1	19800515	AU19790052650	19791108
AU533879 B2	19831215	AU19790052650	19791108
BE879880 A	19800507	BE19790198010	19791107
BR7907257 A	19800909	BR19790007257	19791108
CA1129188 A1	19820810	CA19790339611	19791109
CH650614 A	19850731	CH19790010014	19791108
DE2945321 A1	19800619	DE19792945321	19791109
FR2440778 A1	19800606	FR19790027446	19791107
FR2440778 B1	19870821	FR19790027446	19791107
GB2050681 A1	19810107	GB19790038535	19791107
GB2050681 B2	19820804	GB19790038535	19791107
IL58891 A1	19830930	IL19790058891	19791206
JP1495734 C3	19890516	JP19790144574	19791109
JP55109449 A2	19800822	JP19790144574	19791109
JP63044418 B4	19880905	JP19790144574	19791109
SE452672 B	19871207	SE19790009262	19791108
SE452672 C	19880317	SE19790009262	19791108
SE7909262 A	19800627	SE19790009262	19791108
SE7909262 L	19800627	SE19790009262	19791108
US4469628 A	19840904	US19820370437	19820421
ZA7906049 A	19801029	ZA19790006049	19791109

Priority:

US19780959222 19781109 US19790039595 19790516 CA19790339611 19791109

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Assignee(s): (std): LITOVITZ THEODORE A ; MACEDO PEDRO B ; MACEDO PEDRO ; MD V ST A ; LITOVITZ T ; SIMMONS CATHERINE J ; SIMMONS JOSEPH H

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Inventor(s): (std): SIMMONS CATHERINE J ; SIMMONS JOSEPH H ; MACEDO PEDRO B ; LITOVITZ THEODORE A ; LITOVITZ THEODORE A ; SIMMONS C J ; SIMMONS J H ; MACEDO P B ; LITOVITZ T A ; JIYOSEFU EICHI SAIMONZU ; KIYASARIN JIEI SAIMONZU ; SEODOA EE RAITOBITSU ; PEDORO BII MASEDO ; SIMMONS C ; SIMMONS J ; MACEDO P ; LITOVITZ T

Inventor(s): J H SIMMONS ; C J SIMMONS ; P B MACEDO ; T A LITOVITZ ; 3 P B MACEDO ; 4 T A LITOVITZ ; 1 C J SIMMONS ; 2 J H SIMMONS ; JOSEFU EICHI SAIMONZU ; KYASARIN JEI SAIMONZU ; CATHERINE J SIMMONS ; PEDRO B MACEDO ; JOSEPH H SIMMONS ; THEODORE A LITOVITZ ; H SIMMONS JOSEPH ; A LITOVITZ THEODORE ; B MACEDO PEDRO ; J SIMMONS CATHERINE

Agent(s): PHILLIPS ORMONDE AND FITZPATRICK; SIM AND MCBURNEY; WOLFF BREGMAN AND GOLLER

25) Family number: 44906841 (US2002137920A)

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Title: MAGNETIC PIGMENT

Abstract: Magnetic particles with an outer glass surface being essentially poreless or having pores of a diameter of less than 10 nm as well as ferromagnetic particles with a glass surface are preferentially useful for the isolation of biological material from samples. They provide a quick and reliable purification.

Classifications:

International (IPC 8-9): B01D15/08 B01D57/00 B01J19/00 B01J20/00
B01J20/02 B01J20/28 B03C B03C1/00 B03C1/01 B03C1/02
B22F1/02 B22F3/10 C01B33/18 C03B19/10 C03B19/12 C03B8/02
C03C14/00 C03C3/091 C03C3/093 C04B35/628 C04B35/653 C07H
C07H1/06 C07H1/08 C07H19/20 C07H21/00 C07H21/04 C07K1/22
C07K16/00 C09C1/00 C09C3/00 C09C3/06 C12M1/00 C12M1/34
C12N C12N1/02 C12N13/00 C12N15/00 C12N15/09 C12N15/10

C12N15/11 C12P1/00 C12P19/34 C12P21/02 C12Q C12Q1/68
C12Q1/6806 C23C26/00 C23C30/00 G01N1/28 G01N33/48
G01N33/552 G01N33/553 H01F1/00 H01F1/01 H01F1/06 H01F1/09
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H01F1/44 (Advanced/Invention);
B01D15/08 B01J2/00 B01J20/28 B03C1/00 B22F1/02 C03B8/02
C07H21/00 C12M1/00 C12N15/00 C12N15/09
C12Q1/68 (Advanced/Non-invention);
B01D57/00 B01J20/28 B03C1/00 B03C1/02 C04B35/626
C07H1/00 C07H21/00 C12N15/09 C12N15/10 C12N15/11 C12P19/00
C12P21/02 C12Q1/68 C23C26/00 G01N33/48 G01N33/551 H01F1/00
H01F1/032 H01F1/12 H01F1/44 (Core/Invention);
B03C C07H C12N C12Q (Subclass/Invention)

International (IPC 1-7): B01D15/08 B01D57/00 B01J19/00 B01J2/00
B01J20/02 B03C1/00 B03C1/01 B03C1/02 B22F1/02 B29B9/00
C01B33/18 C03B19/10 C03B8/02 C03C14/00 C03C25/02 C03C3/00
C03C3/091 C03C3/093 C03C4/00 C04B35/628 C04B35/653
C07B63/04 C07H1/06 C07H1/08 C07H19/20 C07H21/00 C07H21/02
C07H21/04 C07K16/00 C09C1/00 C09C3/00 C09C3/06 C12M1/00
C12M1/34 C12N13/00 C12N15/00 C12N15/09 C12N15/10
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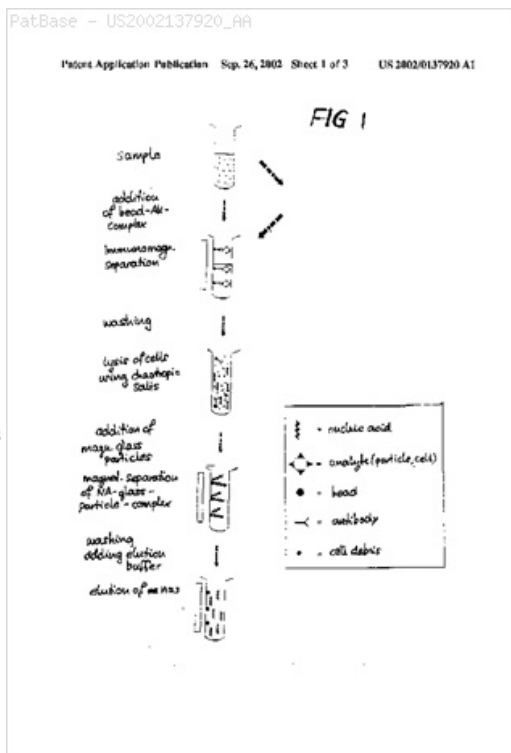
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C03C14/004 C03C2214/08 C03C2214/32 C23C26/00 C23C30/00
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H01F1/44 B82Y25/00 B03C1/01 C12N15/1006 C12N15/1013
C12Q1/6806 H01F1/11 H01F1/112 Y10T428/2996 Y10T428/2989
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European: B03C1/01 B82Y25/00 C03C3/078 C03C3/083
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C12Q1/68D2A C23C26/00 C23C30/00 H01F1/00E10 H01F1/00E10M
H01F1/11 H01F1/11C H01F1/36 H01F1/44 M12Q1/68B2 M12Q561/101

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435/6.12 435/6.120P 435/6.16 435/6.160S 435/6P 435/814 435/91.1 435/91.2 435/91.200S 436/523 436/523S 436/526
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Family:

Publication number	Publication date	Application number	Application date
AT239031 E	20030515	AT19960921935T	19960606
AT248911 E	20030915	AT19990959300T	19991123
AT301665 E	20050815	AT19960016299T	19960606
AT315826 E	20060215	AT20000981267T	20001117
AT368109 E	20070815	AT19960004214T	19960606
AU199663007 A1	19970109	AU19960063007	19960606
AU200016528 A1	20000619	AU20000016528	19991123
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AU0707115 B2	19990701	AU19960063007	19960606
AU762188 B2	20030619	AU20000016528	19991123
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CN1974781 A	20070606	CN200610101636	19960606
CN1974781 B	20130522	CN200610101636	19960606
CZ20021608 A3	20030618	CZ20020001608	20001117
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EP1577389 B2	20170816	EP20050004214	19960606
EP1602724 A1	20051207	EP20050004213	19960606
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ES2256068 T3	20060716	ES20000981267T	20001117
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HK1075065 B	20070928	HK20050109110	20051014
HU0203386 AB	20021228	HU20020003386	20001117
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NO975772 L	19980206	NO19970005772	19971208
NZ311648 A	19990830	NZ19960311648	19960606
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PL356771 A1	20040712	PL20000356771	20001117
PT1144620 T	20040130	PT19990959300T	19991123
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SK287932 B6	20120503	SK20020000664	20001117
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US2003135038 AA	20030717	US20020202618	20020723
US2003224366 AA	20031204	US20020147679	20020516
US2005266429 AA	20051201	US20050041750	20050124
US2005266462 AA	20051201	US20050128024	20050511
US2007082360 AA	20070412	US20060638289	20061212
US2011117561 AA	20110519	US20100957157	20101130
US2012022246 AA	20120126	US20110269195	20111007
US2012247150 AA	20121004	US20120372218	20120213
US6255477 BA	20010703	US19980952969	19980311
US6545143 BA	20030408	US20020856737	20020109
US6870047 BB	20050322	US20010756743	20010110
US6919444 BB	20050719	US20030371375	20030220
US7371830 BB	20080513	US20050041750	20050124
US8129118 BB	20120306	US20050128024	20050511

WO0032762 A1	20000608	WO1999EP08996	19991123
WO0137291 A1	20010525	WO2000EP11459	20001117
WO9641811 A1	19961227	WO1996EP02459	19960606

Priority:

DE19951020398	19950608	DE19951020398	19950806	DE19951037985	19951012
CA19962223821	19960606	CA19962440504	19960606	CA19962605671	19960606
CA19962607563	19960606	EP19960921935	19960606	DE19965010405	19960606
DE19965011258	19960606	EP20020016299	19960606	JP19970502593	19960606
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EP19990122853	19991117	DE19995006909	19991123	US19990856737	19991123
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US20060638289	20061212	CA20072223821	20071121	US20100957157	20101130
US20110269195	20111007	US20120372218	20120213		

Probable Assignee: ROCHE DIAGNOSTICS GMBH

Assignee(s): (std): GEIGER ALBERT ; KLEIBER JOERG ; HARTTIG HERBERT ; BOEHRINGER MANNHEIM GMBH ; INST NEUE MAT GEMEIN GMBH ; SCHMIDT HELMUT ; RIEDLING MICHAEL ; MENNIG MARTIN ; LESNIAK CHRISTOPH ; WALTER THOMAS ; ROCHE DIAGNOSTICS GMBH ; ROCHE DIAGNOSTICS GMBH CHANGE ; ROCHE MOLECULAR SYSTEMS INC ; WEINDEL KURT ; KLEIBER JORG ; INM INST FUR NEUE MATERIALIEN

Assignee(s): INM INST FUR NEUE MATERIALIEN GMBH ; MENNING MARTIN ; ROCHE DIAGNOSTICS GMBH SANDHOFER STRASSE 116 68305 MANNHEIM GERMANY ; ROCHE DIAGNOSTICS GMBH SANDHOFER STRASSE 112 132 68305 MANNHEIM ; ROCHE DIAGNOSTICS GMBH CHANGE OF NAME FROM BOEHRINGER MANNHEIM GMBH ; RIEDLING MICHAEL ; ROCHE DIAGNOSTICS GMBH ; INM INSTITUT FUR NEUE MATERIALIEN GMBH ; BOEHRINGER MANNHEIM GMBH 68305 MANNHEIM DE ; F NEUE MATERIALIEN GEM GMBH INST ; INSTITUT FUR NEUE MATERIALIEN GEM GMBH

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Inventor(s): HELMUT K SCHMIDT ; HARTTIG HERBERT ; HELMUT SCHMIDT ; J KLEIEN ; KLEIBER JOERG WALTER THOMAS HARTTIG HERBERT MENNING MARTIN LESNIAK CHRISTOPH RIEDLING MICHAEL SCHMIDT HELMUT K ; SCHMIDT HELMUT PROF DIPL PHYS DRRERNAT ; LESNIAK CHRISTOPH DIPL CHEM DRRERNAT ; MENNIG MARTIN DIPL PHYS DRRERNAT ; H HARTTIG ; T WALTER ; J KLEIBER ; J CLANE T WOLTER H HALTISI ; H HALTISI ; T WOLTER ; J CLANE ; JORG KLEIBER ; MARTIN MENNIG ; SCHMIDT HELMUT PROF DIPL PHYS DR RER NAT ; LESNIAK CHRISTOPH DIPL CHEM DR RER NAT ; MENNIG MARTIN DIPL PHYS DR RER NAT ; HERBERT HARTTIG ; J RG KLEIBER ; MARTIN MENNING ; CHRISTOPH LESNIAK ; THOMAS WALTER

Agent(s): DAVIES COLLISON CAVE ; DAVIES COLLISON CAVE PTY LTD ; SPRUSON AND FERGUSON ; ASPEN PHARMA PTY LTD ; BORDEN LADNER GERVAIS LLP ; OGILVY RENAULT LLP SENCRL SRL ; TESCHEMACHER ANDREA ; NTD PATENT AND TRADE MARK AGENCY LTD UNITS 1805 6 18 F GREENFIELD TOWER ; NTD PATENT AND TRADE MARK AGENCY LTD ; TSURUTA JUNICHI ; NISHIYAMA MASAYA ; HIGUCHI SOTOJI ; ISHIDA TAKASHI ; FUKUMOTO TSUMORU ; ROCHE MOLECULAR SYSTEMS INC, PATENT LAW DEPARTMENT ; ROCHE MOLECULAR SYSTEMS INC PATENT LAW DEPARTMENT ; KAY OLGA ; TOWNSEND AND TOWNSEND AND CREW LLP ; OLGA ; KILPATRICK TOWNSEND AND STOCKTON LLP

Designated states: AT AU BE CA CH CN CY CZ DE DK ES FI FR GB GR HU IE IT JP KR LI LU MC NL NO NZ PL PT SE SK TR US

26) Family number: 34362869 (US2007074757A)

© PatBase

Title: METHOD OF MAKING SOLAR CELL/MODULE WITH POROUS SILICA ANTIREFLECTIVE COATING

Abstract: A solar cell includes an improved anti-reflection (AR) coating provided on an incident glass substrate. In certain example embodiments, the AR coating includes a layer comprising porous silica. The porous nature of the silica inclusive layer permits the refractive index (n) of the silica inclusive layer to be reduced, thereby decreasing reflection and permitting more radiation to make its way to the active layer(s) of the solar cell. In certain example embodiments, a coating solution may be formed by mixing a colloidal silica solution and a polymeric silica solution, then applying the coating solution to a substrate and curing the same in order to form an AR coating.

Classifications:

International (IPC 8-9): C03C17/30 C03C3/083 G02B1/11

G02B1/111 H01L31/00 H01L31/0216 H01L31/04

H01L31/18 (Advanced/Invention);

G02B1/10 H01L31/00 H01L31/0216 (Core/Invention)

International (IPC 1-7): H01L31/0216

CPC: C03C17/006 C03C17/007 C03C17/23 C03C17/3678

C03C2217/425 C03C2217/732 C03C2218/11 C03C2218/113

C03C2218/154 C03C2218/365 G02B1/111 H01L31/02168 Y02E10/50

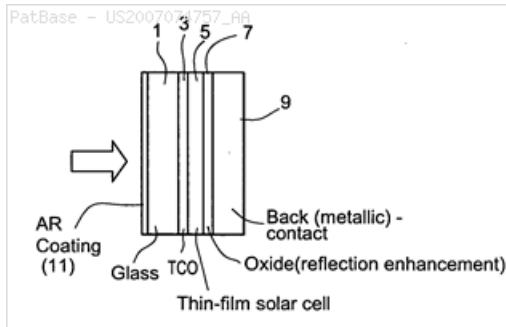
European: C03C17/00D C03C17/00D2 C03C17/23

C03C17/36B354S G02B1/11B H01L31/0216B3B M03C217/425

M03C217/732 M03C218/110 M03C218/113 M03C218/154

M03C218/365 Y02E10/50

US: 136/256



Family:

Publication number	Publication date	Application number	Application date
BRPI0616652 A2	20110628	BR2006PI16652	20061002
CA2620722 AA	20080226	CA20062620722	20061002
EP1949449 A1	20080730	EP20060815990	20061002
IN01832DN2008 A	20080627	IN2008DN01832	20080229

IN279494 B	20170127	IN2008DN01832	20080229
US2007074757 AA	20070405	US20050242123	20051004
WO07044295 A1	20070419	WO2006US38391	20061002

Priority:

US20050242123 20051004 WO2006US38391 20061002

Probable Assignee: GUARDIAN GLASS LLC

Assignee(s): (std): GUARDIAN IND ; GUARDIAN INDUSTRIES ; TAYLOR THOMAS J ; MELLOTT NATHAN P ; GURDIAN IND CORP

Assignee(s): GUARDIAN GLASS LLC ; GURDIAN INDUSTRIES CORP ; GUARDIAN INDUSTRIES CORP ; GUARDIAN IND CORP

Inventor(s): (std): TAYLOR THOMAS J ; MELLOTT NATHAN P

Inventor(s): TAYLOR THOMAS ; MELLOTT NATHAN ; THOMAS J TAYLOR ; NATHAN P MELLOTT

Agent(s): MACPHERSON LESLIE AND TYERMAN LLP; MLT AIKINS LLP; HESS PETER K G; NIXON AND VANDERHYTE PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

27) Family number: 33087869 (WO07121457A1)

© PatBase

Title: COMPOSITION OF BIODEGRADABLE GLASS-CERAMIC

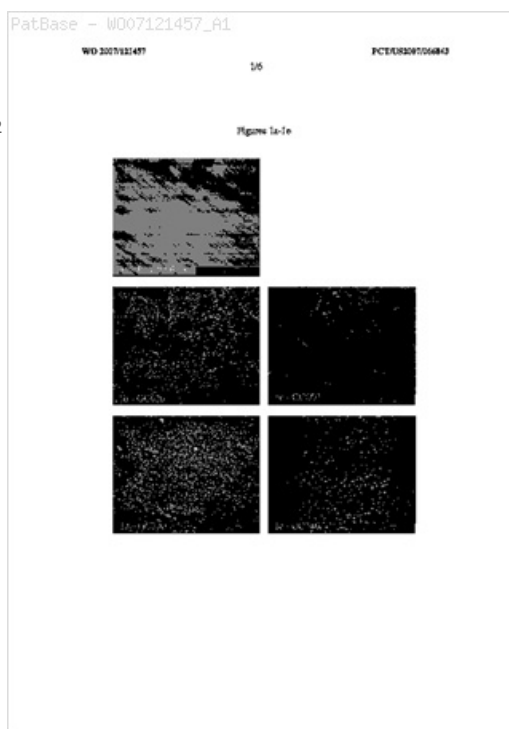
Abstract: A homogeneous nano-scale glass-ceramic comprising a combeite phase and comprising oxides of Si, P, Ca, Na and Mg; a cast or moulded glass-ceramic which has a homogeneous nanoscale microstructure and comprises a combeite phase; a glass comprising oxides of Si, P, Ca, Na and Mg preferably in form and amount corresponding to the glass-ceramic; blends thereof; composites thereof with matrix or filler; processes for the preparation thereof; shaped artefacts thereof; methods for their manufacture and the use thereof as an implantable biodegradable device such as a medium to high strength trauma fixation device suitable for implantation into the human or animal body and the use of the parent glass in the preparation thereof.

Classifications:

International (IPC 8-9): C03C10/04 C03C3/097 (Advanced/Invention); C03C10/00 C03C3/076 (Core/Invention)

CPC: A61K33/00 A61K33/08 A61K33/42 A61L27/10 A61L27/12 A61L27/58 C03C3/097 C03C4/0014 C03C10/0009 C03C2214/20

European: A61K33/00 A61K33/08 A61K33/42 A61L27/10 A61L27/12 A61L27/58 C03C10/00B C03C3/097 C03C4/00B2 M03C214/20



Family:

Publication number	Publication date	Application number	Application date
GB200607605 A0	20060524	GB20060007605	20060418
WO07121457 A1	20071025	WO2007US66843	20070418

Priority:

GB20060007605 20060418

Probable Assignee: SMITH AND NEPHEW PLC

Assignee(s): (std): AKHSHI MARK ; BEST SERENA ; BONFIELD WILLIAM ; FARRAR DAVID ; ROSE JOHN ; SMITH AND NEPHEW ; SMITH AND NEPHEW INC ; VICKERS MARY

Assignee(s): SMITH AND NEPHEW PLC

Inventor(s): (std): VICKERS MARY ; ROSE JOHN ; FARRAR DAVID ; BONFIELD WILLIAM ; BEST SERENA ; AKHSHI MARK

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: CONVERSION MATERIAL, PARTICULARLY FOR A WHITE OR COLORED LIGHT SOURCE COMPRISING A SEMICONDUCTOR LIGHT SOURCE, A METHOD FOR THE PRODUCTION THEREOF, AS WELL AS A LIGHT SOURCE COMPRISING SAID CONVERSION MATERIAL

Abstract: The invention relates to a conversion material, in particular for a white or colored light source comprising a semiconductor light source as primary light source, comprising a matrix glass that, as bulk material, for a thickness d of about 1 mm, has a pure transmission t_i of greater than 80 percent in the wavelength region from 350 to 800 nm and in the region in which the primary light source emits light, wherein the sum of transmission and reflection of the sintered matrix glass without luminophore is at least greater than 80 percent in the spectral region from 350 nm to 800 nm and in the spectral region in which the primary light source emits light.

Classifications:

International (IPC 8-9): B05D5/06 C03C14/00 C03C3/066 C03C3/068 C03C3/089 C03C3/091 C03C3/093 C03C3/095 C03C3/16 C03C4/12 C09K11/00 C09K11/02 C09K11/77 C09K11/80 F21V9/00 H01L31/0232 H01L33/00 H01L33/50

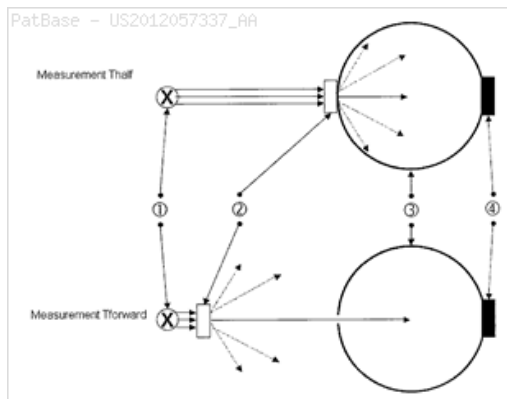
H01L33/56 (Advanced/Invention); C03C14/00 C03C3/062 C03C3/076 C03C3/12 C03C4/00 H01L31/0232 H01L33/00 (Core/Invention);

H01L33/00 (Core/Non-invention)

CPC: C03C14/006 C03C3/068 C03C3/091 C03C3/093 C03C3/095 C03C3/16 C03C4/12 C03C2214/16 C09K11/02 C09K11/7774

European: C03C14/00F C03C3/068 C03C3/091 C03C3/093 C03C3/095 C03C3/16 C03C4/12 C09K11/02 C09K11/77S6 M03C214/16

US: 252/301.40RS 252/301.4R 362/231 362/231P 427/157 427/157S



Family:

Publication number	Publication date	Application number	Application date
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DE102008021438 A1	20091231	DE200810021438	20080429
EP2274248 A2	20110119	EP20090737884	20090429
EP2274248 B1	20181003	EP20090737884	20090429
JP2011518752 T2	20110630	JP20110506609T	20090429
KR20110003377 A	20110111	KR20107026495	20090429
TW201003997 A	20100116	TW20090114590	20090429
TWI455350 B	20141001	TW20090114590	20090429
US2012057337 AA	20120308	US20090990355	20090429
US2018194673 AA	20180712	US20180916403	20180309
US9950949 BB	20180424	US20090990355	20090429
WO09132840 A2	20091105	WO2009EP03111	20090429
WO09132840 A3	20091230	WO2009EP03111	20090429

Priority:

DE200810021438 20080429 WO2009EP03111 20090429 US20110990355 20110616
US20180916403 20180309

Probable Assignee: SCHOTT AG

Assignee(s): (std): BRIX PETER ; GOEDEKE DIETER ; LIEBALD RAINER ; NASS PETER ; PICHLER WILHELM SABINE ; WIMMER SABRINA ; STOLZ CLAUDIA ; RITTER SIMONE MONIKA ; SCHOTT AG

Inventor(s): (std): WIMMER SABRINA ; GOEDEKE DIETER ; LIEBALD RAINER ; BRIX PETER ; PICHLER WILHELM SABINE ; STOLZ CLAUDIA ; NASS PETER ; RITTER SIMONE MONIKA ; NASS PETER ; PETER BRIX ; PETER NASS ; DIETER GOEDEKE ; CLAUDIA STOLZ ; RAINER LIEBALD ; SABINE PICHLER WILHELM ; MONIKA RITTER SIMONE ; SABRINA WIMMER ; NAB PETER ; STOLTZ CLAUDIA

Inventor(s): PICHLER-WILHELM, SABINE

Agent(s): BLUMBACH ZINNGREBE; BLUMBACH ZINNGREBE PATENT U RECHTSANWAELTE; USUI SHINICHI; OKABE YUZURU; OKABE MASAO; TAKANASHI NORIMICHI; OHLANDT GREELEY RUGGIERO AND PERLE LLP; HERDEN ANDREAS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MANUFACTURE AND USE OF ENGINEERED CARBIDE AND NITRIDE COMPOSITES

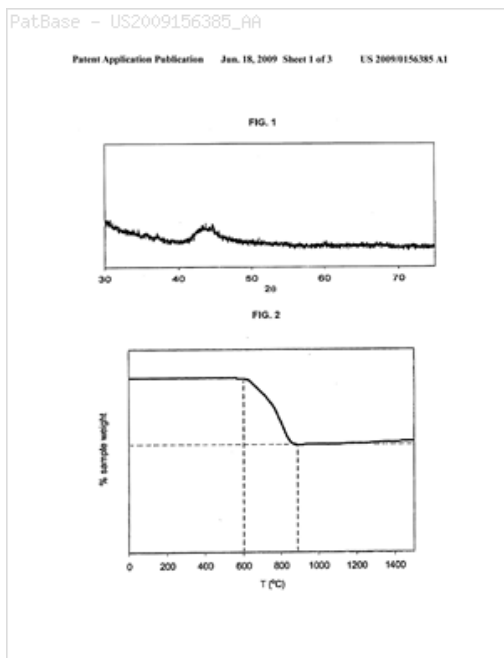
Abstract: Carbides and nitrides are provided containing a controlled amount of pre-determined diluents and methods for their manufacture and use are disclosed. The pre-determined diluents include at least one of the silica, silicon metal, carbon, alumina, boron oxide, alkaline earth oxides such as calcium oxide, magnesium oxide, alkali oxides such as sodium oxide, potassium oxide, iron oxide, titanium oxide, and other components typically present in glass, ceramics, or metals. The carbides and nitrides with pre-determined diluents are formed by optionally pyrolyzing a precursor material to form a carbonaceous mixture and heat treating the carbonaceous mixture for a pre-determined time and at an elevated temperature during which carbon and/or nitrogen reacts with silica in the mixture to form carbides and/or nitrides and controlled amounts of pre-determined diluents. The carbides and nitrides disclosed herein may be used as blowing agents in a glass, ceramic, or metal forming processes or for promoting dispersion of the carbides and nitrides throughout a glass, ceramic, or metal composite.

Classifications:

International (IPC 8-9): C03B19/08 C03C14/00 C03C6/00 C03C6/04 C04B35/565 C04B35/577 C09K3/00 (Advanced/Invention); C03B19/00 C03C14/00 C04B35/565 C09K3/00 (Core/Invention)

CPC: C04B35/18 C04B35/19 C04B35/522 C04B2235/3418

C04B2235/3427 C04B2235/3826 C03C11/007 C03C14/00
European: C03C11/00F C03C14/00 C04B35/565 C04B35/58
US: 252/182.12 252/182.120P 252/182.32 252/182.320S 252/182.33
 252/182.330S 252/182.34 252/182.340S 252/182.35 252/182.350S
 423/345 501/27 501/29 501/32 501/88 501/89 501/90 65/20 65/20S



Family:

Publication number	Publication date	Application number	Application date
US2009156385 AA	20090618	US20040977344	20041029
US2009200512 AA	20090813	US20090425217	20090416
US7897534 BB	20110301	US20090425217	20090416

Priority:

US20030515863P 20031029 US20040977344 20041029 US20090425217 20090416

Probable Assignee: JAMES HARDIE INT FINANCE BV

Assignee(s): (std): BISCAN GIANG ; HARDIE JAMES TECHNOLOGY LTD ; HOJAJI HAMID ; PHAM THINH ; MELMETH DAVID LESLIE ; STEVENS MARK G ; ZHANG HUAGANG

Assignee(s): JAMES HARDIE TECHNOLOGY LTD ; JAMES HARDIE INT ; JAMES HARDIE INT FINANCE BV ; JAMES HARDIE TECHNOLOGY LIMITED

Inventor(s): (std): PHAM THINH ; MELMETH DAVID LESLIE ; STEVENS MARK G ; BISCAN GIANG ; HOJAJI HAMID ; ZHANG HUAGANG

Agent(s): GARDERE JHIF GARDERE WYNNE SEWELL LLP; GARDERE WYNNE SEWELL LLP