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(54) Title: NON-OPAQUE ARSENIC-FREE BETA-SPODUMENE GLASS CERAMIC EXHIBITING BROWN-GREY COLORATION

FIG. 1

Oxides (weight %)	Example 1	Example 2	Example 3	Example 4	Example 5	Example 6	Example 7	Example 8	Example 9	Example 10
SiO ₂	64,81	64,62	64,62	64,65	64,61	65,57	65,57	65,62	67,16	67,22
Al ₂ O ₃	20,8	20,8	20,8	20,8	20,8	20,8	20,8	20,8	19,2	19,2
Li ₂ O	3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,5	3,5
MgO	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	1,3	1,3
ZnO	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,7	1,7
BaO	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	1,8	1,8
TiO ₂	3	3	3	3	3	3	3	3	3	3
ZrO ₂	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4
SnO ₂	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35
K ₂ O	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,1	0,1
Na ₂ O	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,2	0,2
CuO	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4
V ₂ O ₅	0,062	0,167	0,110	0,130	0,167	0,062	0,062	0,062	0,062	0,062
CoO	0,0013	0,0013	0,0013	0,0013	0,0013	0,0013	0,0013	0,0013	0,025	0,015
Fe ₂ O ₃	0,160	0,250	0,300	0,250	0,250	0,250	0,250	0,200	0,250	0,200
Cr ₂ O ₃	0,0173	0,0173	0,0173	0,0173	0,021	0,0173	0,022	0,022	0,02	0,02
NO										
CeO ₂										

(57) Abstract: Methods, compositions, and articles provide for LAS-type glass-ceramics having specific thermo-mechanical, optical and coloration characteristics to yield generally brown-grey products. The glass-ceramic materials may include as colorants iron oxide, vanadium oxide, chromium oxide, cobalt oxide, nickel oxide and/or cerium oxide.

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INTERNATIONAL SEARCH REPORT

International application No PCT/IB2014/000228
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A. CLASSIFICATION OF SUBJECT MATTER
 INV. C03C3/085 C03C3/087 C03C3/095 C03C4/02 C03C10/00
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B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 C03C F24C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 EPO-Internal, WPI Data

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X	GB 1 246 694 A (CORNING GLASS WORKS [US]) 15 September 1971 (1971-09-15) page 3 - page 5; examples 1-4; tables I,II page 1, line 43 - page 2, line 34 -----	1-9,11, 12,15, 21-27, 30,33
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Further documents are listed in the continuation of Box C.

See patent family annex.

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