



New connection on: : 12-10-2018 : 07:22:48 - Last disconnection on: : 12-10-2018 : 05:14:39

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 4] ..fiepodoc



Database: EPODOC

[EPODOC: SS 4] (windscreen or windshield or laminat+ or glaz+)

Results in EPODOC **788.422**

[SS 5] 1 and ((oscur+ or tint+) 5d (insert+ or layer+))

Results in EPODOC **73**

[SS 6] * and PD<2017-09-29

Results in EPODOC **68**

[SS 7] ..v

[EPODOC: SS 7] ..li 1-10



1/68 © EPODOC / EPO

PN - [JP2017161928](#) A 20170914
 PR - US20100421720P 20101210
 AP - JP20170095460 20170512
 DT - I
 CT - || STSE (A)
 [JP2002502503](#) A 20020122 [Y]
 [Y] 1
 * Page19 Line5 - Line6, Line23 -
 Line24, Page56 Line23 - Page57
 Line7 *;
 [JP2010160504](#) A 20100722
 [Y] (SEIKO EPSON CORP)
 [Y] 1
 * Claims1-2 *
 CCI - [B32B17/064](#) ; [G02B27/281](#)
 CUI - [G02B5/3041](#)
 FI - B32B17/10; B32B7/02&103;
 G02B1/11; G02B1/14; G02B5/22;
 G02B5/30
 FT - 2H148/CA15; 2H148/CA17;
 2H148/CA24; 2H149/AA23;
 2H149/AB01; 2H149/BA02;
 2H149/BA04; 2H149/BA22;
 2H149/BA27; 2H149/EA22;
 2H149/FA12W; 2H149/FA66;
 2H149/FC02; 2H149/FC03;
 2H149/FC08; 2H149/FD09;
 2K009/AA02; 2K009/AA15;
 2K009/BB02; 2K009/CC01;
 2K009/CC24; 4F100/AG00A;
 4F100/AK01B; 4F100/AK25;
 4F100/AK42; 4F100/BA03;
 4F100/BA04; 4F100/BA05;
 4F100/BA06; 4F100/BA07;
 4F100/BA10A; 4F100/BA10C;
 4F100/BA10D; 4F100/BA10E;
 4F100/CA13D; 4F100/CB00E;
 4F100/GB07; 4F100/HB00D;
 4F100/JD14C; 4F100/JL10D;
 4F100/JL11E; 4F100/JN06B;
 4F100/JN06C; 4F100/JN10B;
 4F100/JN10C; 4F100/JN26C;
 4F100/JN30C; 4F100/YY00C
 PA - 3M INNOVATIVE PROPERTIES CO
 TI - GLARE-REDUCING **GLAZING**
 ARTICLES

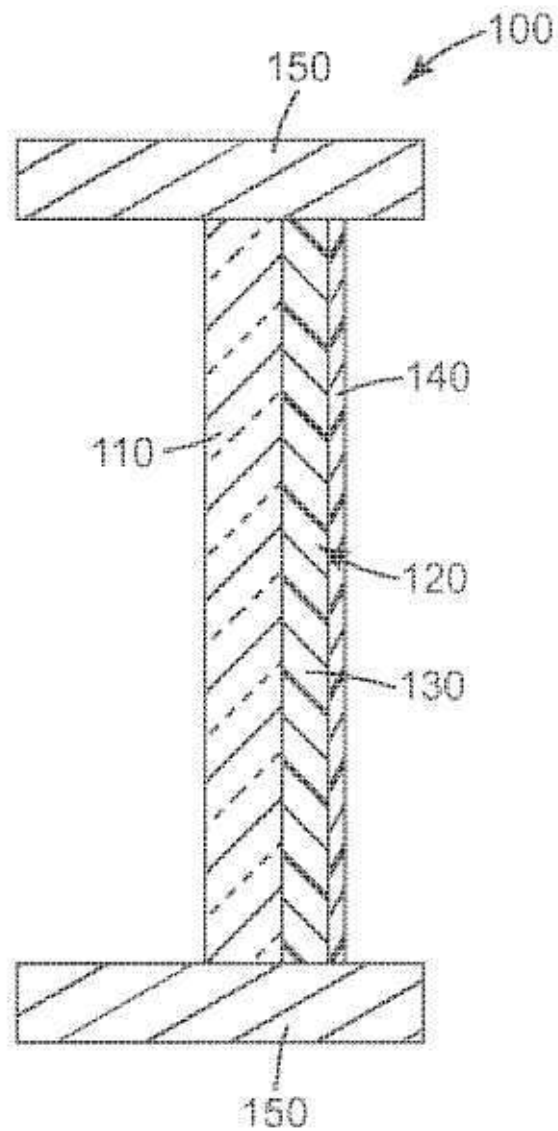


Fig. 1

AB

- PROBLEM TO BE SOLVED: To reduce glare without completely blocking incident light.
SOLUTION: A **glazing** article 200 includes a **glazing** substrate 210, and a reflective polarizing film article 220 attached to the **glazing** substrate 210. The reflective polarizing film article 220 includes a reflective polarizing film 230, and a reflection inhibitor layer 240. The reflective polarizing film article 220 reduces horizontally polarized light to 90% or less of the horizontally polarized incident visible light. The reflective polarizing film 230 may include a multi-layer film construction. The reflection inhibitor **layer** may include a **tinted layer** or an absorptive polarizer **layer**. **Glazing** units that reduce glare include at least one **glazing** substrate 210, at least one reflective polarizing film 230, and at least one reflection inhibitor layer 240. The **glazing** substrate 210, the reflective polarizing film 230 and the reflection inhibitor layer 240 may or may not be in contact with one another.
SELECTED DRAWING: Figure 2

2/68 © EPODOC / EPO

PN - [TW201704175](#) A 20170201
PR - US201562169840P 20150602
AP - TW20160117240 20160601
DT - I
CCI - [B32B17/06](#) ; [C03C3/085](#) ;
[C03C3/087](#) ; [C03C3/091](#) ;
[C03C3/093](#) ; [C03C3/095](#) ;
[C03C3/097](#) ; [C03C4/02](#) ;
[C03C17/02](#) ; [C03B17/02](#) ;
[C03B17/064](#)
CUI - [C03C4/12](#) ; [C03C4/18](#)

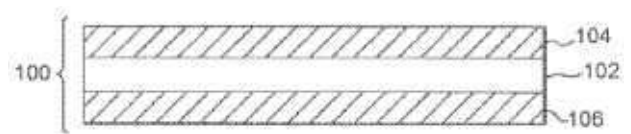
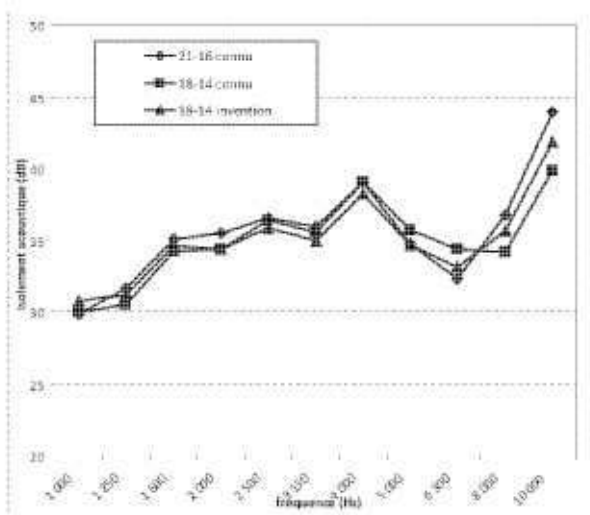


FIG. 1

- CUA - [B32B2307/308](#) ;
[B32B2307/4026](#) ; [C03C2204/00](#)
- PA - CORNING INC [US]
- TI - **Laminated** glass article
with **tinted layer**
- AB - A **laminated** glass article
includes a glass core layer and a
glass cladding layer adjacent to
the glass core layer. At least one
of the glass core layer or the
glass cladding **layer** is a **tinted**
layer. The **tinted layer** can
include a **tinting** agent that
imparts a color to the **tinted**
layer.

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- PN - [MX2016006557](#) A 20160803
- PR - FR20130061724
20131127; WO2014FR53027
20141125
- AP - MX20160006557 20141125
- DT - I
- CCI - [B32B17/10036](#) ; [B32B17/10651](#) ;
[B32B17/1066](#) ; [B32B17/10761](#) ;
[G10K11/168](#)
- CUI - [B60J1/001](#) ; [B60J3/007](#) ;
[B60R13/0815](#)
- CCA - [B32B2250/03](#)
- CUA - [B32B2307/102](#) ; [B32B2605/006](#)
- PA - SAINT-GOBAIN GLASS FRANCE [FR]
- TI - VISCOELASTIC INSERT FOR A
VIBROACOUSTIC DAMPING AND
GLASS PANEL INCLUDING SUCH AN
INSERT.
- AB - The invention relates to a
viscoelastic plastic insert
intended to be incorporated
between two glass sheets in
order to form a **laminated** glass
panel having vibroacoustics
damping properties, the insert
including at least one layer (3)
made of a viscoelastic plastic
having viscoacoustic damping
properties and the **insert**



being **tinted** in the body at least over a portion of the surface thereof, the insert being such that the resonance frequency f_2 of the second resonance mode of a **laminated** glass panel bar, said glass panel having a 25 mm x 300 mm surface area and consisting of two glass panels which each have a thickness of 2.1 mm and between which the insert is incorporated, determined by measuring the mechanical impedance (MIM) at 20 °C according to ISO standard 16940, is 760 Hz to 100 Hz; and the loss factor $\hat{I} \cdot 2$ of the second resonance mode of the same bar, determined by MIM under the same conditions, is no lower than 0.25. The invention makes it possible to decrease the thickness of the glass panels without damaging the vibroacoustic damping properties, all the while respecting the privacy of the persons inside a vehicle or protecting the driver of the vehicle against blinding by sunlight.

4/68 © EPODOC / EPO

PN - [CN205691898U](#) U 20161116
 PR - CN201521139800U 20151231
 AP - CN201521139800U 20151231
 DT - I
 PA - SHENZHEN EASYQUICK LTD BY SHARE LTD
 TI - Display device
 AB - The utility model provides a display device, mainly by last structure (91), lower structure (92), control IC (80) constitutes, last structure (91) are made by ITO shielding layer (10), last protective (20), chromatic filter **layer** (30) and order gold **-tinted** technology, structure (92) are made by photoresist layer (40), pixel electrode layer (60), lower protective (70) and order gold -tinted technology down, its characterized in that: going up structure (91) and being provided with the one or more slider down between structure (92), cavity of inside formation is used for saving the liquid crystal and forms liquid crystal layer (50), go up structure (91) and adopt the **laminating** mode to link

together between structure (92) and liquid crystal layer (50) down, lower protective (70) of structure (92) go up to sputter down has pixel electrode layer (60), multistage stack design is adopted in pixel electrode layer (60), the size of structure (92) is greater than the size of structure (91) down, down structure (92) are greater than and are provided with 1 or a plurality of control IC (80) on the vacant region of structure (91), control IC (80) is through pixel electrode layer (60) and lower structure (92) electric connection.

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PN - [WO2016196615](#) A1 20161208
 PR - US201562169840P 20150602
 AP - WO2016US35240 20160601
 DT - *; Rep
 CT - |EP| ISR (A1)
[WO2013130665](#) A2 20130906
 [IY] (CORNING INC [US], et al)
 [I] 35,36
 * paragraphs [0007] , [0016] -
 [0038] - [0044] - [0046] *
 [Y] 1-34;
[WO2015023561](#) A2 20150219
 [IY] (CORNING INC [US])
 [I] 35,36
 * paragraphs [0006] , [0015] -
 [0026] - [0043] - [0056] - [0082] -
 [0093]; tables 1, 2 *
 [Y] 1-34;
[WO2014013242](#) A1 20140123
 [IY] (PILKINGTON GROUP LTD
 [GB])
 [I] 35,36
 * page 2, line 10 - page 4,
 line 26 *
 [Y] 1-34;
[EP1599426](#) B1 20080730
 [IY] (SAINT GOBAIN [FR])
 [I] 35,36
 * paragraphs [0006] - [0048] *
 [Y] 1-34;
[WO2007016126](#) A1 20070208
 [Y] (PPG IND OHIO INC [US])
 [Y] 1-34
 * paragraphs [0010] - [0022] *;
[EP1985591](#) A1 20081029
 [Y] (SCHOTT AG [DE])
 [Y] 1-34
 * paragraphs [0007] - [0032] *;
[EP0816296](#) A1 19980107
 [Y] (PPG INDUSTRIES INC [US])

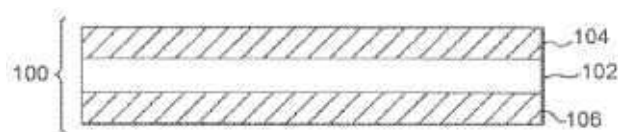
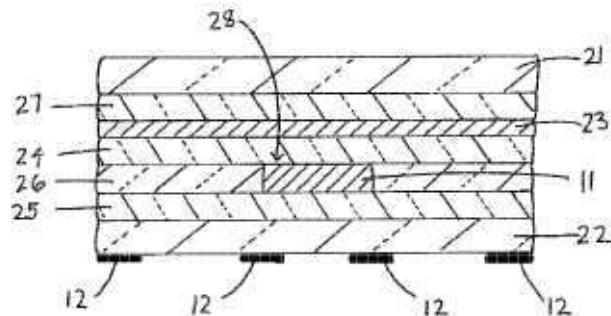


FIG. 1



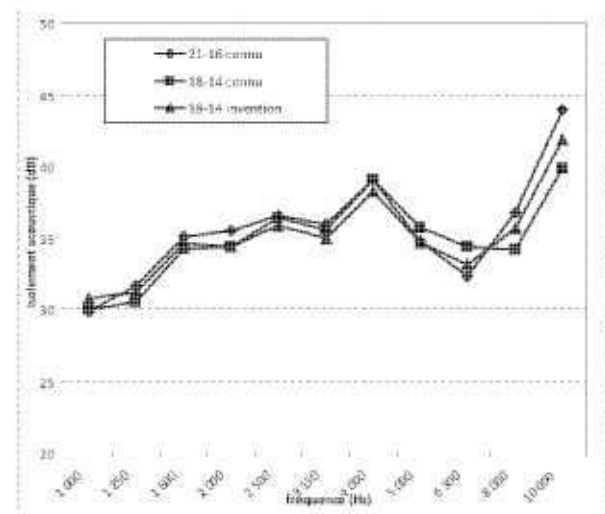
B60Q3/208

- CLC - B32B17/10, B32B2367/00, INV
- FI - B32B17/10; B60J1/00&H;
B60J1/00&J; B60J3/04;
C03C27/12&L; C03C27/12&N
- FT - 4F100/AB01E; 4F100/AB24;
4F100/AB40; 4F100/AG00A;
4F100/AK01B; 4F100/AK23;
4F100/BA05; 4F100/BA07;
4F100/BA10A; 4F100/BA10B;
4F100/DE00C; 4F100/GB32;
4F100/JD10D; 4F100/JG05E;
4F100/JG10C; 4F100/JL10A;
4F100/JL10B; 4F100/JL10E;
4F100/JN06D; 4G061/AA21;
4G061/AA25; 4G061/BA02;
4G061/CB03; 4G061/CB12;
4G061/CB16; 4G061/CB19;
4G061/CD02; 4G061/CD18
- PA - (A)
PILKINGTON GROUP LTD
- TI - (A)
LAMINATE WINDOW PANEL
- AB - (A)
PROBLEM TO BE SOLVED: To
provide a **lamine** window
panel in which an EL device, LCD,
or SPD is incorporated and
problems of humidity sensitivity
and temperature sensitivity are
solved.SOLUTION: A **lamine**
window panel comprises: two
panes 21 and 22 of window
panel materials, which are
coupled by plys 24, 25, 26 and
27 of at least one layer of an
intermediate layer material; an
electric device 11 (for example,
electronic fluorescence lamp,
LCD, or SPD) disposed between
the panes 21 and 22 of the
window panel materials;
infrared ray radiation reflection
means (for example, reflection
film 23) disposed between the
panes 21 and 22 so as to reduce
the amount of infrared ray
radiation entering the electric

device. One or more pairs 21 and 22 of the window panel materials and/or the at least one layer of intermediate layer material plys 24, 25, 26 and 27 of the intermediate **layer** material, are colored (body **tint**). The window panel can be used as a window of vehicle, especially a skylight.
SELECTED
DRAWING: Figure 2

7/68 © EPODOC / EPO

- PN - [CN104822526](#) A 20150805
- PR - WO2014FR53027
20141125; FR20130061724
20131127
- AP - CN20148002528 20141125
- DT - I
- CT - || STSE (A)
[CN1832868](#) A 20060913
[A] (SAINT GOBAIN
PERFORMANCE PLAST [BE])
[A] 1-12
* 全文 *;
[CN101678650](#) A 20100324
[A] (SAINT GOBAIN)
[A] 1-12
* 全文 *;
[CN101637991](#) A 20100203
[X] (KURARAY EUROP GMBH DE)
[X] 1-12
* 说明书第1-4,6, 8页 *;
[CN101448638](#) A 20090603
[A] (SAINT GOBAIN [FR])
[A] 1-12
* 全文 *;
[US2009219468](#) A1 20090903
[A] (BARTON NEIL [GB], et al)
[A] 1-12
* 全文 *
CCI - [B32B17/10036](#) ; [B32B17/10651](#) ;
[B32B17/1066](#) ; [B32B17/10761](#) ;
[G10K11/168](#)
CUI - [B60J1/001](#) ; [B60J3/007](#) ;
[B60R13/0815](#)
CCA - [B32B2250/03](#)



CUA	- B32B2307/102 ; B32B2605/006
PA	- SAINT GOBAIN
TI	- VISCOELASTIC INSERT FOR VIBROACOUSTIC DAMPING AND GLASS PANEL INCLUDING SUCH INSERT
AB	- The invention relates to a viscoelastic plastic insert intended to be incorporated between two glass sheets in order to form a laminated glass panel having vibroacoustics damping properties, the insert including at least one layer (3) made of a viscoelastic plastic having viscoacoustic damping properties and the insert being tinted in the body at least over a portion of the surface thereof, the insert being such that the resonance frequency f_2 of the second resonance mode of a laminated glass panel bar, said glass panel having a 25mm*300mm surface area and consisting of two glass panels which each have a thickness of 2.1 mm and between which the insert is incorporated, determined by measuring the mechanical impedance (MIM) at 20 DEG C according to ISO standard 16940, is 760 Hz to 1000 Hz; and the loss factor $[\eta]$ 2 of the second resonance mode of the same bar, determined by MIM under the same conditions, is no lower than 0.25. The invention makes it possible to decrease the thickness of the glass panels without damaging the vibroacoustic damping properties, all the while respecting the privacy of the persons inside a vehicle or protecting the driver of the vehicle against blinding by sunlight.

- PN - [CN104804555](#) A 20150729
- PNFP - CN104804555B B 20170613
- PR - CN20141827049 20141222
- AP - CN20141827049 20141222
- DT - I
- CT - || STSE (A)
[US2567924](#) A 19510918 [A] (BUSH EDWARD R, et al)
[A] 1-10
* 全文 *;
[US2630395](#) A 19530303 [A] (VERNON MCCULLOUGH KENNETH, et al)
[A] 1-10
* 全文 *;
[JPH04239089](#) A 19920826 [A] (OHTSU TIRE & RUBBER CO LTD)
[A] 1-10
* 全文 *;
[CN101993624](#) A 20110330 [A] (DONGGUAN LILLY PAINTING LTD)
[A] 1-10
* 全文 *;
[CN103614006](#) A 20140305 [Y] (JIANGMEN PENGJIANG DISTR JUJIANG PAINT CHEMICAL CO LTD)
[Y] 1-7
* 说明书第0024-0028段 *;
[CN103952081](#) A 20140730 [Y] (DALIAN CASHEW BELONGS NEW MATERIALS CO LTD)
[Y] 1-7
* 说明书第0004段 *
- CNOI - (A)
[C09D103/02](#) ; [C09D7/20](#) ; [C09D7/45](#) ; [C09D7/61](#) ; [C09D7/65](#)
- CNOL - C09D103/02, C08L91/00, C08L77/00, C08K3/346, C08K3/36, INV
- CNOA - (A)
[C08L2205/03](#)
- PA - (A)
SHANGHAI CARPOLY PAINT CO LTD
- TI - (A)
Base coat tint filler and preparation method thereof
- AB - (A)
The invention discloses a base coat tint filler and its preparation method. The base coat tint filler is prepared from refined castor oil, anti-settling slurry, trimethylbenzene, a thickening agent and corn starch. The anti-settling slurry is prepared from toluene, bentonite and a wetting agent. In comparison with the prior art, the invention has the following advantages and beneficial effects: (1) the base coat tint filler has good adhesion to upper and lower **layers**; (2) the base coat **tint** filler has good application property and is easy to rub, and requirements on constructors' construction skill level are low; (3) the base coat tint filler has good transparency, is easy for tinting, and has a strong sense of **layering** after **tinting**; (4) the base coat tint filler has good fillibility; and

(5) as the base coat tint filler is suitable for most of general oily **Glaze** sold in the current market, the base coat tint filler has wide use value.

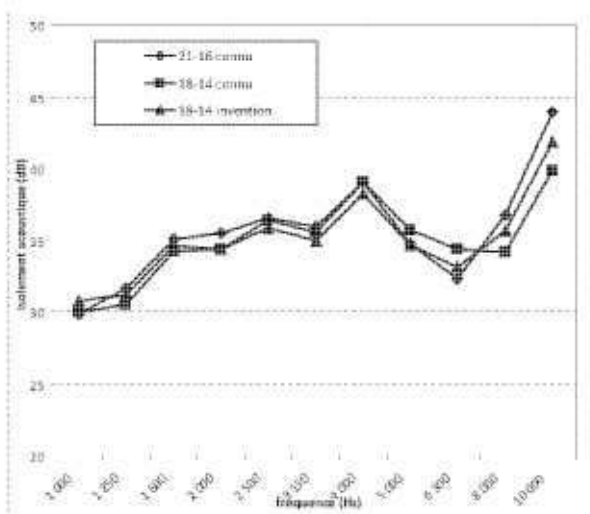
9/68 © EPODOC / EPO

- PN - [JP2015120632](#) A 20150702
- PNFP - JP6212471B B2 20171011
- PR - FR20060054886 20061114
- AP - JP20140241698 20141128
- DT - I
- CT - || STSE (A)
[WO2006103575](#) A1 20061005 [] (KONINKL PHILIPS ELECTRONICS NV [NL], et al);
[JPH09314715](#) A 19971209 [] (ASAHI GLASS CO LTD)
- CCI - [B32B17/10036](#) ; [B32B17/10174](#) ; [B32B17/10339](#) ; [B32B17/10706](#) ; [B32B17/10733](#) ;
[B32B17/10761](#) ; [B32B17/1077](#) ; [B32B17/10788](#) ; [C03C1/008](#) ; [C03C17/006](#) ;
[H01L31/0216](#) ; [F24S80/52](#)
- CCA - [Y02E10/40](#) ; [C03C2203/30](#) ; [C03C2217/425](#) ; [C03C2218/113](#) ; [Y10T428/24496](#) ;
[Y10T428/249976](#) ; [Y10T428/249975](#) ; [Y10T428/249969](#) ; [Y10T428/249977](#)
- FI - B32B17/08; B32B5/18; B32B7/02&103; B32B9/00&A; B60J1/00&G; C03C17/22&Z;
C03C17/25&Z; C03C27/10&D; H01L31/04&284; H01L31/04&560; H01L33/00&L;
H05B33/02; H05B33/14&A
- FT - 3K107/AA01; 3K107/CC05; 3K107/CC10; 3K107/CC45; 3K107/DD18; 3K107/EE28;
3K107/FF06; 3K107/FF15; 4F100/AA00B; 4F100/AA12B; 4F100/AA16B; 4F100/AA20B;
4F100/AD05B; 4F100/AD08B; 4F100/AG00A; 4F100/AG00C; 4F100/AT00A; 4F100/AT00C;
4F100/BA03; 4F100/BA04; 4F100/BA05; 4F100/BA07; 4F100/BA10A; 4F100/BA10C;
4F100/CC00B; 4F100/DJ00B; 4F100/HB00C; 4F100/JA20B; 4F100/JK15A; 4F100/JL00;
4F100/JL10C; 4F100/JM01B; 4F100/JN01A; 4F100/JN18A; 4F100/JN30A; 4F100/JN30B;
4F100/JN30C; 4F100/YY00A; 4F100/YY00B; 4G059/AA01; 4G059/AA08; 4G059/AC01;
4G059/AC30; 4G059/EA05; 4G059/EA12; 4G061/AA25; 4G061/AA26; 4G061/BA02;
4G061/CA02; 4G061/CB19; 4G061/CD02; 4G061/CD03; 4G061/CD12; 5F142/AA04;
5F142/AA67; 5F142/AA72; 5F142/DB36; 5F142/DB38; 5F142/DB42; 5F142/GA10;
5F142/GA40; 5F142/HA01; 5F151/AA05; 5F151/AA08; 5F151/AA09; 5F151/AA10;
5F151/BA11; 5F151/DA03; 5F151/GA03; 5F151/JA03; 5F151/JA04; 5F151/JA05
- PA - (A)
SAINT GOBAIN
- TI - (A)
POROUS LAYER, MANUFACTURING PROCESS OF THE SAME, AND APPLICATION OF THE SAME
- AB - (A)
PROBLEM TO BE SOLVED: To provide a light-emitting **lamine** structure by an easily implementable porous coating with durability.SOLUTION: A light-emitting **lamine** structure 100 includes: a planar transparent substrate 1 that has a predetermined refractive index n; a planar second substrate 1" that is wholly **tinted**; a **laminated** middle **layer** 5 between the first substrate 1 and the second substrate 1"; a porous coating 2" that is deposited on the **laminated** middle layer 5 and forms an optical separator; a light source 6 connected to an end of the first substrate 1; and an inner reverse scattering network 7 between the porous coating 2" and the first substrate 1 and/or an outer scattering network on an outer surface of the first substrate. The

porous coating has a refractive index n , and a difference n -nis 0.1 or more, and preferably 0.2 or more. In the light-emitting **laminated** structure 100, the first substrate 1 is made of a clear or extra clear glass, while the second substrate 1" is made of a tinted glass. The obtained structure can be used for sheet glasses, decorative panels, **windshield**, sunroof, rear or side window panes, antireflection, or the like.

10/68 © EPODOC / EPO

PN - [WO2015079159](#) A1 20150604
 PR - FR20130061724 20131127
 AP - WO2014FR53027 20141125
 DT - **
 CT - |EP| ISR (A1)
[US2012094084](#) A1 20120419
 [Y] (FISHER WILLIAM KEITH [US], et al)
 [Y] 1-5,7-12
 * paragraphs [0003] , [0045] , [0049] , [0050] *
 * paragraph [0058] -
 paragraph [0074]; figures 6-8; table 3 *;
[EP1800855](#) A1 20070627
 [Y] (ASAHI GLASS CO LTD [JP])
 [Y] 1-5,7,8,10-12
 * paragraphs [0018] - [0020] - [0035] , [0036] , [0042] , [0062] - [0076] - [0095] - [0099]; figures 1,15(A),15(B); claim - *
 * paragraph [0077] -
 paragraph [0082] *;
[EP1958764](#) A1 20080820
 [Y] (ASAHI GLASS CO LTD [JP])
 [Y] 1-5,7-12
 * paragraph [0071] -
 paragraph [0077]; figure 6 *
 * paragraph [0032] *;
[US2007009714](#) A1 20070111
 [Y] (LEE DAVID J [US], et al)
 [Y] 1-5,7,8,10-12
 * paragraphs [0160] , [0164] , [0194] , [0204]; examples 5,9,11 A,19A *
 * paragraph [0128] -
 paragraph [0136] *
 * paragraph [0036] -
 paragraph [0055] *;
[US2009294212](#) A1 20091203
 [Y] (MIYAI JIRO [JP])



[Y] 1-5,7-12

* paragraph [0046] -

paragraph [0051]; figures 1,3 *;

[EP2153989](#) A1 20100217

[L] (KURARAY EUROPE GMBH [DE])

[L]

* paragraph [0053] *

CCI - [B32B17/10036](#) ; [B32B17/10651](#) ;
[B32B17/1066](#) ; [B32B17/10761](#) ;
[G10K11/168](#)

CUI - [B60J1/001](#) ; [B60J3/007](#) ;
[B60R13/0815](#)

CCA - [B32B2250/03](#)

CUA - [B32B2307/102](#) ; [B32B2605/006](#)

PA - SAINT GOBAIN [FR]

TI - VISCOELASTIC INSERT FOR A
VIBROACOUSTIC DAMPING AND
GLASS PANEL INCLUDING SUCH AN
INSERT

AB - The invention relates to a
viscoelastic plastic insert
intended to be incorporated
between two glass sheets in
order to form a **laminated** glass
panel having vibroacoustics
damping properties, the insert
including at least one layer (3)
made of a viscoelastic plastic
having viscoacoustic damping
properties and the **insert**
being **tinted** in the body at least
over a portion of the surface
thereof, the insert being such
that the resonance frequency f_2
of the second resonance mode of
a **laminated** glass panel bar,
said glass panel having a 25 mm
x 300 mm surface area and
consisting of two glass panels
which each have a thickness of
2.1 mm and between which the
insert is incorporated,
determined by measuring the
mechanical impedance (MIM) at
20 °C according to ISO standard
16940, is 760 Hz to 100 Hz; and
the loss factor η_2 of the second

resonance mode of the same bar, determined by MIM under the same conditions, is no lower than 0.25. The invention makes it possible to decrease the thickness of the glass panels without damaging the vibroacoustic damping properties, all the while respecting the privacy of the persons inside a vehicle or protecting the driver of the vehicle against blinding by sunlight.

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