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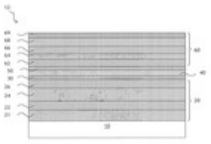
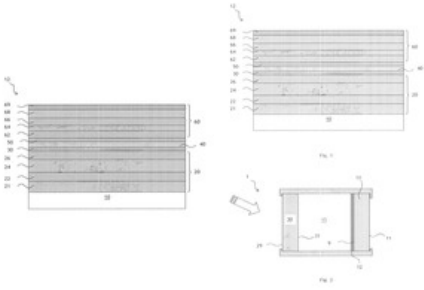
#	Title	Publication number	1st app. date	Applicant/Assignee	1st publ. date	Publ. date
1.	Substrate provided with a stack with thermal properties and comprising high refractive index layers and its use	FR2942794	2009-03-09	SAINT GOBAIN GLASS*	2010-09-10	2010-09-10

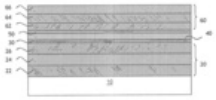
The invention relates to a glass substrate (10) provided, on a main surface, with a thin film stack comprising a metal functional layer (40), in particular made of silver or a metal alloy containing silver and having infrared or solar radiation reflective properties, and two antireflection coatings (20, 60), said coatings each comprising at least two dielectric layers (22, 24, 26, - 62, 64, 66), said functional layer (40) being placed between both antireflection coatings (20, 60), characterized in that each antireflection coating (20, 60) comprises at least one high refractive index dielectric layer (24, 64) contacting or close to the functional layer (40), that is, 10 nm or less from the functional layer (40).

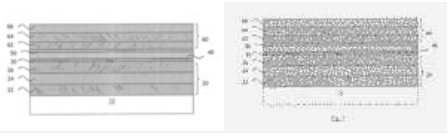




2.	Substrate comprising a stack with thermal properties	FR2928913	2008-03-18	SAINT GOBAIN GLASS*	2009-09-25	2009-09-25

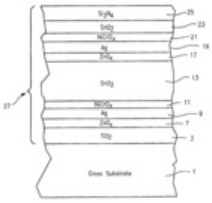
The invention relates to a glass substrate (10) having, on a main side, a stack of thin layers comprising a functional metallic layer (40) with reflective properties in infrared and/or solar radiation, particularly silver-based or based on a metallic alloy containing silver, and two anti-reflective coatings (20, 60), said coatings each comprising at least one dielectric layer (22, 64) silicon-nitride based, possibly doped with at least one other element, such as aluminum, said functional layer (40) being placed between the two antireflective coatings (20, 60), characterized in that the optical thickness e60 in nm of the underlying antireflective coating (60) is: e60 = 5 x e40 + a, where e40 is the geometric thickness in nm of the functional layer (40) such as 13 4040 < 18, and where a is a number = 25 ± 15.

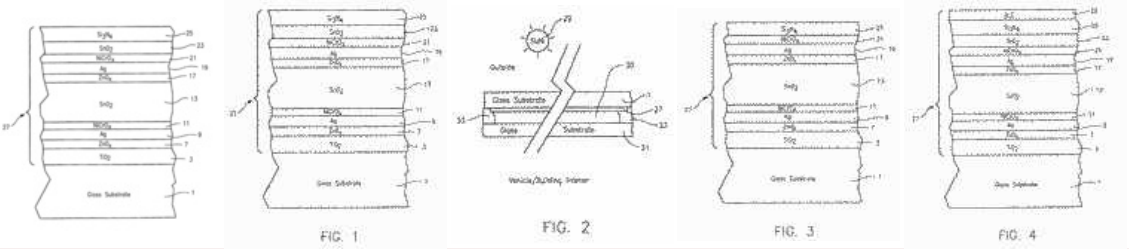




3.	Coated article with high visible transmission and low emissivity	WO03033427	2001-10-17	CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE & LA CERAMIQUE* GUARDIAN EUROPE S Ã** R L* GUARDIAN GLASS* GUARDIAN INDUSTRIES	2003-04-24	2003-04-24

A coated article that can be used in applications such as insulating glass (IG) units, so that resulting IG units can achieve high visible transmission of at least 70% (e.g., when using clear glass substrates from 1.0 to 3.5 mm thick), combined with at least one of: (a) SHGC no greater than about 0.45, more preferably no greater than about 0.40; (b) SC no greater than about 0.49, more preferably no greater than about 0.46; (c) chemical and/or mechanical durability; (d) neutral transmissive color such that transmissive a* is from -5.0 to 0 (more preferably from -3.5 to -1.5), and transmissive b* is from -2.0 to 4.0 (more preferably from 1.0 to 3.0); and (e) neutral reflective color from the exterior of the IG unit (i.e., Rg/Rout) such that reflective a* is from -3.0 to 2.0 (more preferably from -2.0 to 0.5), and reflective b* is from -5.0 to 1.0 (more preferably from -4.0 to -1.0). In certain example non-limiting embodiments, coated articles herein comprise: substrate/TiOx/ZnOx/Ag/NiCrOx/SnOx/ZnOx/Ag/NiCrOx/SnOx/SixNy.





4.	Glazing provided with stacked thin layers reflecting infrared rays and/or solar radiation	FR2827855	2001-07-25	SAINT GOBAIN GLASS*	2003-01-31	2003-01-31

The invention concerns a glazing comprising at least a transparent substrate S provided with stacked thin layers including an alternation of n functional layers A with reflecting properties in infrared and/or in solar radiation, in particular metal layers, and (n+1) dielectric material coatings B, with n >/= 1. The stack fulfils the following criteria: at least a functional layer A is (i) directly in contact with the dielectric layer B arranged above it, and (ii) in contact with the dielectric coating B arranged beneath it via a layer C absorbent at least in the visible light, of metallic type optionally nitrided.

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