

INFORME DE BÚSQUEDA DE PATENTES PARA EL No de Radicación: 14-158749						
CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los boleanos utilizados)						
Palabras clave utilizadas		Bulletproof glass, ultraviolet protected, vehicular glazing, glazing, cholesteric layer, liquid crystals,.				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		B32B17/10				
BASES DE DATOS CONSULTADAS.						
ESPACENET		USPTO		JPO		Patent scope
Patbase		Kipo				
INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS (documentos patentes, literatura no patente etc...)						
Oficina	Fecha del examen o de reporte de búsqueda de documentos	Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)	Reiv. afectadas	RELEVANCIA (requisito que afecta)	FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA	
					SI	NO
WIPO	22/03/2013	US5239406	1-3, 8-16, 26 / 4-7, 17-25	Novedad y nivel inventivo	X	
		US2009115922	1-3, 8-16, 26	Novedad	X	
		US 2003137632	4-7, 17-25	Nivel inventivo	X	
		US6280826	1-26	A		X
DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.						
Reduced ultraviolet radiation transmitting, variable transmission, glazing assembly US2002041424						
Bulletproof glass pane of automobiles US5496643						
Light modulating film of improved UV stability for a light valve US 5728251						
Glazing with variable optical and/or energetic properties US6055088						
Electrochromic light-attenuation or -filtration device WO9904316						
Thermal insulating coating US6800337						
Bulletproof glass window for a motor vehicle US 6280826						
Infrared light reflecting film US 20070109673						
Composition for reducing the transmission of infrared radiation US 20070152188						
Infrared light reflector, infrared light reflecting laminated glass, and laminated glass and laminate having cholesteric liquid crystal layers WO2010143684						
High light transmission bulletproof glass of armed helicopter CN201587157						
Process of preparing a multilayer cholesteric film I US6417902						
Cholesteric layered material, and the production thereof US2003085380						
Film, film roll and method for manufacturing film JP2011186158						
Process of preparing lamination film, lamination film and heat shield CN102211439						
Cholesteric Multi-Layers US2010178508						
Cholesteric glassy liquid crystals with hybrid chiral-nematic mesogens US2010086704						
Observaciones						
Fecha del reporte de búsqueda:		16/03/2016				

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US549643 (A)

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Bibliographic data: US549643 (A) — 1996-03-05

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Bulletproof glass pane of automobiles

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[US549643\(A\)_Bulletproof glass pane of automobiles](#)

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[SAINT OGBORN VITOSEK \(PL\)](#)

Classification:
[International: B32BT/06, B62G1/06, C03C27/12, C03C27/12, F4H5/06, \(IPC1-7\): B32B1/02, E06B3/04](#)
[cooperative: B32BT/0605, B32BT/1006, B32BT/1017, B32BT/1021, B32BT/1025, B32BT/1026, B32BT/1027, B32BT/1028, B32BT/1029, B32BT/1030, B32BT/1031, B32BT/1032, B32BT/1033, B32BT/1034, B32BT/1035, B32BT/1036, B32BT/1037, B32BT/1038, B32BT/1039, B32BT/1040, B32BT/1041, B32BT/1042, B32BT/1043, B32BT/1044, B32BT/1045, B32BT/1046, B32BT/1047, B32BT/1048, B32BT/1049, B32BT/1050, B32BT/1051, B32BT/1052, B32BT/1053, B32BT/1054, B32BT/1055, B32BT/1056, B32BT/1057, B32BT/1058, B32BT/1059, B32BT/1060, B32BT/1061, B32BT/1062, B32BT/1063, B32BT/1064, B32BT/1065, B32BT/1066, B32BT/1067, B32BT/1068, B32BT/1069, B32BT/1070, B32BT/1071, B32BT/1072, B32BT/1073, B32BT/1074, B32BT/1075, B32BT/1076, B32BT/1077, B32BT/1078, B32BT/1079, B32BT/1080, B32BT/1081, B32BT/1082, B32BT/1083, B32BT/1084, B32BT/1085, B32BT/1086, B32BT/1087, B32BT/1088, B32BT/1089, B32BT/1090, B32BT/1091, B32BT/1092, B32BT/1093, B32BT/1094, B32BT/1095, B32BT/1096, B32BT/1097, B32BT/1098, B32BT/1099, B32BT/1100, B32BT/1101, B32BT/1102, B32BT/1103, B32BT/1104, B32BT/1105, B32BT/1106, B32BT/1107, B32BT/1108, B32BT/1109, B32BT/1110, B32BT/1111, B32BT/1112, B32BT/1113, B32BT/1114, B32BT/1115, B32BT/1116, B32BT/1117, B32BT/1118, B32BT/1119, B32BT/1120, B32BT/1121, B32BT/1122, B32BT/1123, B32BT/1124, B32BT/1125, B32BT/1126, B32BT/1127, B32BT/1128, B32BT/1129, B32BT/1130, B32BT/1131, B32BT/1132, B32BT/1133, B32BT/1134, B32BT/1135, B32BT/1136, B32BT/1137, B32BT/1138, B32BT/1139, B32BT/1140, B32BT/1141, B32BT/1142, B32BT/1143, B32BT/1144, B32BT/1145, B32BT/1146, B32BT/1147, B32BT/1148, B32BT/1149, B32BT/1150, B32BT/1151, B32BT/1152, B32BT/1153, B32BT/1154, B32BT/1155, B32BT/1156, B32BT/1157, B32BT/1158, B32BT/1159, B32BT/1160, B32BT/1161, B32BT/1162, B32BT/1163, B32BT/1164, B32BT/1165, B32BT/1166, B32BT/1167, B32BT/1168, B32BT/1169, B32BT/1170, B32BT/1171, B32BT/1172, B32BT/1173, B32BT/1174, B32BT/1175, B32BT/1176, B32BT/1177, B32BT/1178, B32BT/1179, B32BT/1180, B32BT/1181, B32BT/1182, B32BT/1183, B32BT/1184, B32BT/1185, B32BT/1186, B32BT/1187, B32BT/1188, B32BT/1189, B32BT/1190, B32BT/1191, B32BT/1192, B32BT/1193, B32BT/1194, B32BT/1195, B32BT/1196, B32BT/1197, B32BT/1198, B32BT/1199, B32BT/1200, B32BT/1201, B32BT/1202, B32BT/1203, B32BT/1204, B32BT/1205, B32BT/1206, B32BT/1207, B32BT/1208, B32BT/1209, B32BT/1210, B32BT/1211, B32BT/1212, B32BT/1213, B32BT/1214, B32BT/1215, B32BT/1216, B32BT/1217, B32BT/1218, B32BT/1219, B32BT/1220, B32BT/1221, B32BT/1222, B32BT/1223, B32BT/1224, B32BT/1225, B32BT/1226, B32BT/1227, B32BT/1228, B32BT/1229, B32BT/1230, B32BT/1231, B32BT/1232, B32BT/1233, B32BT/1234, B32BT/1235, B32BT/1236, B32BT/1237, B32BT/1238, B32BT/1239, B32BT/1240, B32BT/1241, B32BT/1242, B32BT/1243, B32BT/1244, B32BT/1245, B32BT/1246, B32BT/1247, B32BT/1248, B32BT/1249, B32BT/1250, B32BT/1251, B32BT/1252, B32BT/1253, B32BT/1254, B32BT/1255, B32BT/1256, B32BT/1257, B32BT/1258, B32BT/1259, B32BT/1260, B32BT/1261, B32BT/1262, B32BT/1263, B32BT/1264, B32BT/1265, B32BT/1266, B32BT/1267, B32BT/1268, B32BT/1269, B32BT/1270, B32BT/1271, B32BT/1272, B32BT/1273, B32BT/1274, B32BT/1275, B32BT/1276, B32BT/1277, B32BT/1278, B32BT/1279, B32BT/1280, B32BT/1281, B32BT/1282, B32BT/1283, B32BT/1284, B32BT/1285, B32BT/1286, B32BT/1](#)

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Spacenet - Claims | WO/2010/072558

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Claims: WO2010143684 (A1) — 2010-12-16

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INFRARED LIGHT REFLECTOR, INFRARED LIGHT REFLECTING LAMINATED GLASS, AND LAMINATED GLASS AND LAMINATE HAVING CHOLESTERIC LIQUID CRYSTAL LAYERS

Claims not available for WO2010143684 (A1)
Claims corresponding document: EP2442162 (A1)

A high quality text as facsimile in your desired language may be available amongst the following family members:

► WO/20090686(A1) ► EP2442162(A1) ► WO/20090686(A1) ► US2010208418(A1)

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Original claims **Claims tree**

The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO. In particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.

1. An infrared-light reflective plate reflecting an infrared light of equal to or longer than 700nm comprising in this order, at least one of four parts of the substrate,
wherein said four parts of the substrate are formed of a liquid cholesteric liquid crystal phase, and disposed in this order from the substrate;
wherein the reflection center wavelengths of the light-reflective layers K1 and K2 are same with each other and are A1 (nm), and the two layers reflect center wavelengths of light in opposite directions;
wherein the reflection center wavelengths of the light-reflective layers K3 and K4 are same with each other and are A2 (nm), and the two layers reflect opposite-directional light in opposite directions, and
A1+12 is satisfied.

2. The infrared-light reflective plate of claim 1, wherein
the reflection center wavelength A1 (nm) of the light-reflective layers K1 and K2 falls within a range of from 800 to 1100 nm, and
the reflection center wavelength A2 (nm) of the light-reflective layers K3 and K4 falls within a range of from 1000 to 1400 nm.

