

Title (en)  
MULTIREGION HEATED EYE SHIELD

Title (de)  
BEHEIZTE MULTIREGIONALE AUGENSCHUTZBLENDE

Title (fr)  
ÉCRAN OCULAIRE CHAUFFÉ À RÉGIONS MULTIPLES

Publication  
**EP 3048919 A4 20170621 (EN)**

Application  
**EP 14848178 A 20140926**

Priority  
• US 201314040683 A 20130929  
• US 2014057887 W 20140926

Abstract (en)  
[origin: WO2015048564A1] Eye shield device adapted for fog prevention for use in a ski goggle, dive mask, medical or testing face shield or the like, while preventing undesirable hot spots on the eye shield, comprising an optically-transparent substrate, a plurality of conductive regions defined on the substrate and connected to a powered circuit of one or more channels. The regions on the substrate are electrically isolated from each other in a first embodiment, and the regions on the substrate are not electrically isolated, or contiguous with adjacent regions on the substrate, in a second embodiment. The regions may be uniformly-sized or of varying sizes and shapes from one region to the next region, and resistivity per square of heating material applied to the regions may be selected based on formulation of the heating material and/or thickness of the heating material.

IPC 8 full level  
**A42B 3/24** (2006.01); **A61F 9/02** (2006.01); **A61F 9/06** (2006.01)

CPC (source: EP KR US)  
**A42B 3/245** (2013.01 - KR); **A61F 9/029** (2013.01 - EP KR); **A61F 9/06** (2013.01 - EP KR); **B63C 11/12** (2013.01 - EP KR); **H05B 1/023** (2013.01 - EP KR); **H05B 3/0004** (2013.01 - EP KR US); **H05B 3/84** (2013.01 - EP KR); **A42B 3/245** (2013.01 - EP); **H05B 2203/005** (2013.01 - EP KR); **H05B 2203/011** (2013.01 - EP KR); **H05B 2203/013** (2013.01 - EP KR); **H05B 2203/037** (2013.01 - EP KR); **H05B 2214/04** (2013.01 - EP KR)

Citation (search report)  
• [XY] WO 2013123262 A1 20130822 - MCCULLOCH DAVID [US], et al  
• [XY] WO 2007054694 A1 20070518 - NEL TECHNOLOGIES LTD [GB], et al  
• [XY] US 4584721 A 19860429 - YAMAMOTO TAMENOBU [JP]  
• [XY] WO 2013078442 A1 20130530 - MCCULLOCH DAVID [US], et al  
• [XY] WO 2013059257 A1 20130425 - MCCULLOCH DAVID [US], et al  
• [XY] US 5471036 A 19951128 - SPERBECK SCOTT W [US]  
• [XY] US 2011126345 A1 20110602 - MATSUMOTO KIMIO [JP], et al  
• See references of WO 2015048564A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2015048564 A1 20150402**; AU 2014324661 A1 20160512; CA 2925317 A1 20150402; CN 105828651 A 20160803; EP 3048919 A1 20160803; EP 3048919 A4 20170621; JP 2016539667 A 20161222; KR 20160066035 A 20160609

DOCDB simple family (application)  
**US 2014057887 W 20140926**; AU 2014324661 A 20140926; CA 2925317 A 20140926; CN 201480053542 A 20140926; EP 14848178 A 20140926; JP 2016518132 A 20140926; KR 20167011247 A 20140926