

Title (en)  
FLEXIBLE TRANSPARENT CONDUCTIVE ELECTRODE

Title (de)  
FLEXIBLE TRANSPARENTE LEITFÄHIGE ELEKTRODE

Title (fr)  
ÉLECTRODE CONDUCTRICE TRANSPARENTE SOUPLE

Publication  
**EP 3547332 A1 20191002 (EN)**

Application  
**EP 18886729 A 20180921**

Priority  
• CN 201711280783 A 20171207  
• CN 2018107054 W 20180921

Abstract (en)  
A flexible transparent conductive electrode. The flexible transparent conductive electrode consists of a transparent flexible substrate and a silver nanowire coating coated on a surface of the transparent flexible substrate. A preparation therefor comprises steps of : adding a silver nanowire aqueous dispersion, a waterborne acrylic resin, triethylenetetramine, 1-2 parts of methyl p-tolyl sulfone, 0.1-0.3 parts of hydrogenated castor oil, and a composite solvent to a vacuum mixer for vacuum defoaming and uniform mixing to obtain a mixed liquid, the silver nanowire aqueous dispersion having a concentration of 2-10 mg/mL, and the composite solvent being prepared by mixing an alcohol solvent and a ketone solvent; and drying the wet film in a vacuum oven at 150 °C for 3-10 min, and taking out the wet film after moisture in the wet film is completely volatilized, to give the flexible transparent conductive electrode. The electrode reduces electrical resistivity, and further avoids accumulation of silver nanowires, ensures uniformity of electrical conductivity, and improves light transmittance.

IPC 8 full level  
**H01B 5/14** (2006.01)

CPC (source: CN EP)  
**H01B 1/22** (2013.01 - CN EP); **H01B 5/14** (2013.01 - CN EP); **H01B 13/00** (2013.01 - CN EP); **H01B 13/30** (2013.01 - CN EP)

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