

Title (en)

Preventing electron discoloration of glass.

Title (de)

Verhinderung der Elektronverfärbung von Glass.

Title (fr)

Prévention de décoloration de verre par des électrons.

Publication

EP 0655767 A1 19950531 (EN)

Application

EP 94118103 A 19941117

Priority

US 15822893 A 19931129

Abstract (en)

Glass discoloration by high energy electrons is avoided by applying a thin oxide layer on the surface of the glass that would otherwise be impacted by electrons, which is alkali-free, contains no ions inherently reducible by electron bombardment, and has a thickness larger than the depth of penetration of the electron beam at a given acceleration potential but insufficient color to interfere with desired color coordinate specifications. Suitable thin oxide layers comprise ZnO, SnO₂, In₂O₃ and tin-doped indium oxide. <IMAGE>

IPC 1-7

H01J 29/88; **H01J 29/28**

IPC 8 full level

C03C 17/23 (2006.01); **H01J 29/00** (2006.01); **H01J 29/28** (2006.01); **H01J 29/88** (2006.01)

CPC (source: EP KR)

H01J 29/28 (2013.01 - EP); **H01J 29/86** (2013.01 - KR); **H01J 29/88** (2013.01 - EP)

Citation (search report)

- [X] DE 4106640 A1 19911002 - MITSUBISHI ELECTRIC CORP [JP]
- [X] EP 0003551 A1 19790822 - SIEMENS AG [DE]
- [DA] US 3725710 A 19730403 - DE GIER J, et al
- [A] ANONYMOUS: "Display Tube with Enhance Luminescence. November 1978.", IBM TECHNICAL DISCLOSURE BULLETIN, vol. 21, no. 6, NEW YORK, US, pages 2587

Designated contracting state (EPC)

DE FR GB NL

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