

Title (en)

Color cathode ray tube and fabrication method of fluorescent surface thereof

Title (de)

Farbkathodenstrahlröhre und Verfahren zu ihrer fluoreszenten Oberfläche- Herstellung

Title (fr)

Tube à rayons cathodiques couleur et procédé pour la fabrication de sa surface fluorescente

Publication

EP 0862199 B1 20011010 (EN)

Application

EP 98103467 A 19980227

Priority

- JP 4632097 A 19970228
- JP 3934598 A 19980220

Abstract (en)

[origin: EP0862199A2] A color cathode ray tube is disclosed, that comprises an optical filter layer 2 formed on an inner surface of a glass panel 1, a thin film formed on a front surface of the optical filter layer 2 and composed of a metal oxide, and a fluorescent substance layer 4 formed on the thin film 3 corresponding to a pattern of the optical filter layer 2. The surface state of the thin film 3 is rougher than the surface state of the optical filter layer 2 and similar to the surface state of the fluorescent substance layer 4. Thus, the optical filter layer 2 sparsely contacts the fluorescent substance layer 4. Thus, the influence of the optical filter layer 2 to the fluorescent substance layer 4 can be reduced. Consequently, fluorescent substance particles of the fluorescent substance layer 4 can be suppressed from breaking, dropping, and so forth. Thus, an excellent fluorescent surface can be obtained at high throughput.

IPC 1-7

H01J 29/18; H01J 29/28

IPC 8 full level

H01J 9/227 (2006.01); **H01J 29/18** (2006.01); **H01J 29/28** (2006.01); **H01J 29/32** (2006.01)

CPC (source: EP)

H01J 29/185 (2013.01); **H01J 29/28** (2013.01)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0862199 A2 19980902; EP 0862199 A3 19990331; EP 0862199 B1 20011010; DE 69801939 D1 20011115; DE 69801939 T2 20020425; JP H10302668 A 19981113; MY 132849 A 20071031

DOCDB simple family (application)

EP 98103467 A 19980227; DE 69801939 T 19980227; JP 3934598 A 19980220; MY PI9800840 A 19980226