

Title (en)

Cathode ray tube with a panel portion

Title (de)

Kathodenstrahlröhre mit Frontscheibe

Title (fr)

Tube à rayons cathodiques comportant un panneau

Publication

**EP 1557862 A1 20050727 (EN)**

Application

**EP 04075133 A 20040120**

Priority

EP 04075133 A 20040120

Abstract (en)

A cathode ray tube (1) comprises an panel portion (2), a funnel portion (3) and a neck portion (4) with an electron gun (5) and a shadow mask. The shadow mask is made of a material with a high thermal expansion coefficient, and the panel portion has an outside radius of curvature (R) larger than 30000 mm. The thicknesses of the panel portion have the following ratios:  $\langle DF \rangle 0.85 \leq Ts/Td \leq 1$   $\langle DF \rangle 0.6 \leq Tl/Td \leq 0.72$   $\langle DF \rangle 0.67 \leq Tc/Td \leq 0.34$  wherein Tc is a glass thickness at the centre of the front portion Ts is a glass thickness at the end of the short axis, at the end of the effective screen area Tl is a glass thickness at the end of the long axis, at the end of the effective screen area Td is a glass thickness at the end of the diagonal, at the end of the effective screen area. <IMAGE>

IPC 1-7

**H01J 29/86**

IPC 8 full level

**H01J 29/86** (2006.01)

CPC (source: EP)

**H01J 29/861** (2013.01); **H01J 2229/862** (2013.01)

Citation (search report)

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