

Title (en)  
IMPLOSION-RESISTANT CATHODE RAY TUBE ENVELOPE

Title (de)  
IMPLOSIONSBESTÄNDIGE KATHODERSTRAHLRÖHRENUMHÜLLUNG

Title (fr)  
ENVELOPPE DE TUBE CATHODIQUE RESISTANTE A L'IMPLOSION

Publication  
**EP 0970501 A1 20000112 (EN)**

Application  
**EP 97912742 A 19971020**

Priority  
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• US 2947696 P 19961024

Abstract (en)  
[origin: WO9818151A1] A glass envelope for a cathode ray tube (10) and a method of production. The envelope comprises (12) a panel member having a thickness (t) that is defined by an equation which involves net tensile stress; wherein the panel having a net tensile stress not exceeding 1150 psi, having a surface compression induced during panel manufacture, and having an implosion protection band (30) shrink-fitted around a skirt (20) on the panel that augments surface compression in the panel (12), whereby the panel thickness is substantially less than that of a corresponding untreated tube envelope.

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**H01J 31/00**; **H01J 29/46**; **H01J 61/30**; **H01K 1/28**; **H01J 29/87**

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