

Title (en)
CATHODE RAY TUBE SCREENS

Publication
EP 0067507 A3 19830504 (EN)

Application
EP 82302090 A 19820423

Priority
GB 8115379 A 19810519

Abstract (en)
[origin: EP0067507A2] A cathode ray tube comprises an envelope (1) having a screen (3) of a single crystalline or polycrystalline material such as yttrium aluminium garnet. Dopants such as Tb<3><->, Eu<3><->, Ce<3><-> or Tm<3><-> are implanted to different depths or in different areas (7, 10) of the screen. Annealing the screen removes lattice damage caused by the implanting. Multicolour luminescence is obtained by scanning an electron beam over the differently doped areas (7, 10), or by varying the electron beam energy as it scans.

IPC 1-7
H01J 29/20; C09K 11/475; H01L 21/477

IPC 8 full level
H01J 9/227 (2006.01); **H01J 29/20** (2006.01); **H01J 29/32** (2006.01)

CPC (source: EP)
H01J 9/227 (2013.01); **H01J 29/20** (2013.01)

Citation (search report)

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- GB 2000173 A 19790104 - PHILIPS NV
- GB 1446268 A 19760818 - RCA CORP
- GB 1484399 A 19770901 - STANDARD TELEPHONES CABLES LTD

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JP2014507749A

Designated contracting state (EPC)
DE FR NL

DOCDB simple family (publication)
EP 0067507 A2 19821222; **EP 0067507 A3 19830504**; JP S57196447 A 19821202

DOCDB simple family (application)
EP 82302090 A 19820423; JP 8296482 A 19820517