

Title (en)

Cathode ray tube having a photodeflector.

Title (de)

Kathodenstrahlröhre mit einer Photoablenkeinheit.

Title (fr)

Tube à rayons cathodiques muni d'un photodeviateur.

Publication

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Application

**EP 90202454 A 19900917**

Priority

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Abstract (en)

[origin: EP0418965A1] Cathode ray tube provided with means (12, 13) of electrostatic deflection of the path of an electron beam ef emanating from an electron source (11), the said deflection means comprising at least one electrostatic photodeflector (20, 21, 22, 24) including a photodetector (24) which, under the action of incident luminous radiation, creates electric charges ep which modify the photodeflector's electric deflection field. <??>The photodeflector can be produced with three (20, 21, 22) or two (20, 22) electrodes so that the electron beam ef and the electric charges ep generated do or do not lie in the same space. The photodetector can be a photocathode (24) or a photodiode (40). <??>The structure can be repetitive in order to produce a photodeflector distributed along the path of the electron beam ef. The cathode ray tube can make it possible to produce an oscilloscope. <IMAGE>

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