

Title (en)
FLAT IMAGING DEVICE

Publication
EP 0109010 A3 19861029 (DE)

Application
EP 83110983 A 19831103

Priority
DE 3241605 A 19821110

Abstract (en)
[origin: US4672272A] A flat picture reproducing device includes a vacuum-tight envelope containing an electrode matrix formed of row conductors and column conductors disposed in front of the row conductors and having holes at respective crossings thereof, the matrix dividing the interior of the envelope into a rear and a forward chamber; an areal electron source in the rear chamber; elongated vertical deflection electrodes disposed in the forward chamber in a plane parallel to the plane of the matrix and, respectively, running between rows of the holes parallel to the row conductors, a respective single one of the vertical deflection electrodes being disposed between respective hole rows of adjacent pairs of the hole rows; the envelope having a wall on the forward side thereof coated with a layer of material luminescent when excited by electrons; an addressing circuit for scanning the row conductors sequentially to construct a picture line-by-line, each of the row conductors remaining addressed for at least one picture-row period, the addressing circuit providing the respective column conductors, during each picture-row period, with addressing picture-row information signals so that the electrons delivered by the electron source can pass selectively through the holes of the electrode matrix; the vertical deflection electrodes having different potentials applicable thereto in synchronism with the picture frequency in a manner that the electrons entering the forward chamber are deflected, respectively, upwardly or downwardly.

IPC 1-7
H01J 17/49

IPC 8 full level
H01J 31/12 (2006.01); **H01J 17/49** (2012.01)

CPC (source: EP US)
H01J 17/498 (2013.01 - EP US)

Citation (search report)

- [X] GB 2096436 A 19821013 - MATSUSHITA ELECTRIC IND CO LTD
- [AD] DE 2742555 A1 19780323 - MATSUSHITA ELECTRIC IND CO LTD
- [AD] US 3956667 A 19760511 - VEITH WERNER
- [E] DE 3335598 A1 19850418 - SIEMENS AG [DE]
- [ED] DE 3235894 A1 19840329 - SIEMENS AG [DE]
- [E] DE 3228183 A1 19840202 - SIEMENS AG [DE]

Designated contracting state (EPC)
AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0109010 A2 19840523; EP 0109010 A3 19861029; JP S5999649 A 19840608; US 4672272 A 19870609

DOCDB simple family (application)
EP 83110983 A 19831103; JP 20728983 A 19831104; US 54957983 A 19831107