

Title (en)

Electron generating apparatus, image forming apparatus, method of manufacturing the same and method of adjusting characteristics thereof

Title (de)

Elektronenerzeugungsgerät, Bilderzeugungsgerät und dessen Herstellungs- und Eigenschafteneinstellungsverfahren

Title (fr)

Dispositif générateur d'électrons, dispositif de formation d'images, procédé de fabrication et procédé de réglage de ses caractéristiques

Publication

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Application

EP 97300559 A 19970129

Priority

- JP 3632896 A 19960223
- JP 33245496 A 19961212

Abstract (en)

[origin: EP0803892A2] It is an object of this invention to provide an electron generating apparatus which eliminates, with a simple process, variations in electron-emitting characteristics of electron sources caused by various factors, a method of adjusting the characteristics of the electron generating apparatus, a method of manufacturing the electron generating apparatus, and an image forming apparatus using the electron generating apparatus. Characteristic measuring voltages are applied from pulse generators (6, 7) to each surface-conduction emission device of a display panel (1), so that the electron-emitting characteristics are measured by a current detector (12). A pulse peak value setting circuit (8) is controlled to output a voltage signal having a peak value determined in the above manner, and characteristic shift voltages are applied from the pulse generators (6, 7) to the surface-conduction emission device. With this process, the electron-emitting characteristics of the surface-conduction emission devices are equalized. The characteristic shift voltage is higher than the characteristic measuring voltage, and the characteristic measuring voltage is higher than a driving voltage. <IMAGE>

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Citation (search report)

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