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COLOR CATHODE RAY TUBE WITH A REDUCED DYNAMIC FOCUS
VOLTAGE FOR AN ELECTROSTATIC QUADRUPOLE LENS THEREOF
ABSTRACT OF THE DISCLOSURE

5 A color cathode ray tube includes a phosphor screen,
cathodes, G1 to G5 electrodes and an anode. The G5
electrode is divided into sub-electrodes arranged to be
supplied alternately with a first fixed focus voltage and a
second focus voltage comprised of a fixed voltage superposed
10 with a dynamically varying voltage, and at least one
electrostatic quadrupole lens and at least one electrostatic
lens for correcting curvature of the image field are formed
between the sub-electrodes supplied with the first and second
focus voltages, respectively. The following are satisfied:
15 $0.0625 \times L \leq B - 20A/(3\phi) \leq 22.0$, $L \leq 352$, where A is a G4
electrode length, ϕ is an average of horizontal and vertical
diameters of a center electron beam aperture in the G4
electrode, B is a G5 electrode length, and L is a distance
from the G5 electrode to the phosphor screen. All
20 units are in millimeters.

Fig. 1