

ABSTRACT

MAGNETIC SHIELDING MATERIAL FOR TELEVISION
CATHODE-RAY TUBE AND PROCESS FOR PRODUCING THE SAME

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10 A 0.1 to 0.5 mm-thick plated steel sheet
having high coercive force and magnetic flux
density is provided by hot rolling a slab
comprising by weight carbon: 0.01 to 0.09%,
silicon: not more than 1.0%, phosphorus: not more
than 0.3%, manganese: not more than 1.5%, sulfur:
15 not more than 0.04%, aluminum: not more than 1.0%,
and nitrogen: not more than 0.01% with the balance
consisting of iron and unavoidable impurities, cold
rolling the hot rolled sheet, annealing the cold
rolled sheet to prepare a steel sheet having an
20 average grain diameter of 3 to 15 μm , temper
rolling the steel sheet with a reduction ratio of
not more than 3%, and plating the temper rolled
sheet with chromium or nickel. This enables the
provision of a magnetic shielding material having
25 no significant drift and very good electron beam
landing properties.