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OXIDE CATHODE

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OXIDKATHODE

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CATHODE A OXYDE

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Abstract (en)
[origin: WO0225681A1] The invention relates to a cathode ray tube equipped with at least one oxide cathode, which contains a cathode support having a cathode base that is comprised of a first cathode metal and having a covering layer comprised of ultra-fine metal particles that contain nickel. Said oxide cathode also contains a cathode coating comprised of an electron-emitting material, which contains a particle-particle composite consisting of oxide particles and metal particles. The oxide particles comprise an oxide selected among the oxides of scandium, yttrium and of the lanthanides cerium, praseodymium, neodymium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium and lutetium, and comprise an alkaline earth oxide selected among the group consisting of the oxides of calcium, strontium and barium, and the metal particles contain a second cathode material selected among the group consisting of Ni, Co, Ir, Re, Pd, Rh and Pt. The invention also relates to an oxide cathode.

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