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(54) Title: HEAT-EMITTING PAINT FOR COATING INNER SURFACE OF INDUSTRIAL FURNACE

(57) Abstract: Disclosed is a heat-emitting paint coated on an inner surface of an industrial furnace such as a thermal cracking furnace, a thermal treating furnace, an annealing furnace, and a heating furnace to improve fuel efficiency. The heat-emitting paint comprises a composition consisting of 96 to 98.9 wt% ilmenite with fineness of 150 meshes or less as a main component, 1 to 4 wt% clay as a binder, and 0.1 wt% sodium phosphate as a dispersion agent, and used in a mixed slurry form of 40 to 60 wt% composition and 40 to 60 wt% water. Mostly comprising ilmenite, the heat-emitting paint has an advantage of higher emissivity than a conventional heat refractory material. In particular, when applied to the furnace operating under an oxidative atmosphere at 1000 °C or higher, the heat-emitting paint is not reduced in emissivity for a long period, thereby reducing fuel consumption of the furnace.