Abstract

Coating material for radiation surfaces to produce electromagnetic waves and a method for manufacturing said material

The invention relates to a coating material for radiation surfaces to produce electromagnetic waves and a method for manufacturing of said material. The coating material consists of a binding agent, an insulating agent, a dispersing agent, water and graphite which are mixed together. According to the invention, the coating material is made up of a 55 to 60 % mole fraction of a base substance consisting of a binding agent, insulating agent, dispersing agent and distilled water in addition to a 35 to 40 % mole fraction of graphite. The binding agent consists of distilled water, sulfated oil, phenolene or benzisothiazolinone, casein, urea, alkali diluent and caprolactam. According to the inventive method which is designed to produce said coating material, a binding agent is produced in a first step. In a second step, the base substance is produced. In a third step, the base substance is mixed with the graphite. This results in a coating material with a plurality of dipoles which are formed by the graphite, the insulating agent and be binding agent. Electromagnetic waves with a high degree of radiation are obtained in a state of excitation.