

Title (en)
INFRARED RADIATOR FOR THERMALLY TREATING GOODS, NAMELY STRUCTURAL BODIES, STRUCTURAL UNITS AND CONSTRUCTION MATERIALS

Title (de)
INFRAROTSTRAHLER ZUR THERMISCHEN BEHANDLUNG VON GÜTERN, NÄMLICH BAUKÖRPERN, BAUELEMENTEN UND BAUSTOFFEN

Title (fr)
EMETTEUR DE RAYONNEMENT INFRAROUGE POUR LE TRAITEMENT THERMIQUE DE MATERIAUX, A SAVOIR DE CORPS DE BATIMENTS, D'ELEMENTS DE CONSTRUCTION ET DE MATERIAUX DE CONSTRUCTION

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Application
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Abstract (en)
[origin: DE10163087A1] Infrared radiator has a tubular ceramic support (2) having an outer side with a ceramic layer (3) as functional ceramic, and a core (1) having capillaries in the longitudinal direction arranged in the inner chamber of the ceramic support. Heating devices are arranged in the capillaries and a reflector (4) having a geometry to align the infrared radiation on the material to be treated is positioned at a distance from the support. Preferred Features: The core is made from a ceramic material, preferably Al₂O₃ and has at least one capillary. Longitudinally extending resistance wires (6) are used as the heating devices. The ceramic support is made from a quartz material or a high grade steel or ceramic. The functional ceramic is formed as a 15-50 micron thick layer on the surface of the ceramic support.

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