

Title (en)

Use of a catalytic heater for drying and/or curing

Title (de)

Gebrauch eines katalytischen Heizgeräts zum Trocknen und/oder Härten

Title (fr)

Utilisation d'un chauffage catalytique pour sécher et/ou durcir

Publication

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Application

**EP 11709317 A 20110216**

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Abstract (en)

[origin: WO2011100970A2] The invention relates to a heater, a heating system, use of such heating system for curing a coating and a method for curing a coating. The heater (100) generates heat by catalytic oxidation of gaseous hydrocarbon; and said heater comprises: an arrangement (2) of one or more panels (4); wherein one or more of said panels each comprising: an enclosure (6) comprising a heat radiating front surface (8), and a back surface (10); a catalyst pad (12), said catalyst pad comprising a catalyst (14) capable of catalytically oxidising a hydrocarbon exothermically; a heat insulating material (16) arranged between said catalyst pad and said back surface; means (18) for supplying and distributing gas to said panel. The heater is characterised in that two points (P1, P2) exist on said one or more heat radiating front surfaces (8) of said one or more panels of said heater; said points (P1, P2) defines initial points of two normal vectors (v1, v2) respectively of said surfaces, wherein the mutual angle,  $\alpha$  between said two normal vectors (v1, v2) lies within the range of  $70^\circ$  -  $180^\circ$ . The invention also relates to a heating system comprising one or more of such heaters. Additionally, the invention relates to the use of the heater or the system for drying and/or curing a coating of a coated surface of a structure and to a method for drying and/or curing a coating.

IPC 8 full level

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