Title (en)

APPARATUS FOR DRYING COATED ARTICLES BY INFRA-RED RADIATION

Publication

EP 0154265 B1 19880518 (DE)

Application

EP 85101940 A 19850222

Priority

DE 3406789 A 19840224

Abstract (en)

[origin: WO8503766A1] Method for drying by infrared radiation coated work-pieces, particularly of irregular shape, and plant for implementing such method. The work-pieces are dried by means of infrared radiation in a plurality of predetermined temperature areas, and air flow being provided in the areas and the air being evacuated from an area. The work-pieces are pre-heated in the first area (pre-heating area; 6); the infrared radiation is interrupted in the second area (rest area, 7) so that the temperature of the work-pieces is slightly reduced; in the third area (post-heating area, 8), the drying of the work-pieces is terminated by means of a new infrared radiation, the air being circulated and heat being further supplied by convection to the work-pieces. The plant comprises a housing (1) wherein are arranged, in a plurality of areas, at a distance from the walls of the housing, infrared radiation sources with reflectors, which surround a radiation space, inlet and outlet openings (2, 3), as well as a transport mechanism for conveying the work-pieces into the housing and a suction unit (20). One area (rest area; 7) without infrared radiation source (13) is arranged between two areas (pre-heating area, 6; post-heating area 8), the suction unit (20) being placed in the rest area (7) so as to circulate air inside the housing (1).

IPC 1-7

F26B 3/30; B05D 3/06

IPC 8 full level

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CPC (source: EP US)

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Cited by

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