

Title (en)

HOT-AIR DRIER FOR DRYING COATED SURFACES

Title (de)

HEISSLUFT-TROCKNER ZUR TROCKNUNG BESCHICHTETER OBERFLÄCHEN

Title (fr)

SECHOIR A AIR CHAUD POUR SECHER DES SURFACES RECOUVERTES D'UN REVETEMENT

Publication

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Application

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Abstract (en)

[origin: US5657555A] PCT No. PCT/EP94/02210 Sec. 371 Date Mar. 20, 1996 Sec. 102(e) Date Mar. 20, 1996 PCT Filed Jul. 6, 1994 PCT Pub. No. WO95/03517 PCT Pub. Date Feb. 2, 1995 In a process for drying coated surfaces in a hot-air dryer, part of the hot air in the dryer is continuously circulated therein as a secondary air stream which is mixed with a primary air stream heated to above the drying temperature (Tmax). This reduces the quantity of hot air to be fed into the dryer and thus the material requirements are reduced and the heating time shortened. A hot-dryer for implementing the process has, in the hot-air chambers (7,8) arranged symmetrically on either side in the interior (6) of the dryer, a separating wall (22) dividing an internal chamber (7) and an outer chamber (8) which has fun intake aperture (9) at its lower end for secondary air. At the lower end of the inner chamber (7), the primary air is fed in at a higher flow rate and mixed with the secondary air taken in through the aperture (9).

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