

## Title (en)

PROCESS AND APPARATUS FOR DRYING A LIQUID LAYER DEPOSITED ONTO A MOVING CARRIER MATERIAL

## Publication

**EP 0341646 B1 19920415 (DE)**

## Application

**EP 89108281 A 19890509**

## Priority

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## Abstract (en)

[origin: EP0341646A2] An apparatus for drying a liquid layer deposited on a carrier material which is moved through a drying zone, which liquid layer contains evaporable solvent components and non-evaporable components, comprises a drying apparatus (1) with a drying channel (2), through which the carrier material band (4) runs in the longitudinal direction, on which band the liquid layer to be dried is deposited. The drying channel has a gas/air permeable channel covering surface (7), through which a gas flow, in particular a heated air flow, flows into the drying channel. The channel covering surface (7) is inclined in relation to the channel bottom surface (3) which runs horizontally. The drying channel (2) is adjoined by a gas exchange chamber (15) which contains a fan (12), the fan outlet (16) of which is directed towards a heat exchanger in a partition wall (10) between the gas exchange chamber (15) and a drying chamber (5) situated above the drying channel (2). The gas exchange chamber (15) contains a choke device (13 and 14 respectively) in its bottom surface (18) and in its upper gas inlet (19) respectively. The drying apparatus (1) further contains an exhausting fan (9) which is arranged above the covering surface of a through-channel (20) and is connected to the through-channel via a suction opening. In the outlet (11) of the exhausting fan (9) there is also a choke device (8). <IMAGE>

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