

Title (en)

Method and system for glueing fibres, and fibre glueing apparatus

Title (de)

Verfahren und Anlagen zur Beleimung von Fasern und eine Faserbeleimungsvorrichtung

Title (fr)

Procédé et installation pour encoller des fibres, et dispositif d'encollage de fibres

Publication

EP 1537968 B1 20110608 (DE)

Application

EP 04028589 A 20041202

Priority

DE 10356775 A 20031202

Abstract (en)

[origin: EP1537968A2] Fibers are transported from a bunker (3) through an outlet (4) with belt weigher (7), and a duct (5) and housing (6), to a discharge head (14). The fibers fall through locks formed by guide plates and a grate aperture (9), and are coated with small adhesive droplets by spray nozzles (12) located on the ends of the plates. The aperture is 50 to 1999mm long and 200 - 4000mm wide. The fibers are separated by several cylinders (8) positioned above each other in the bunker outlet. The fiber volume is weighed before or after adhesive application, and the adhesive volume is proportioned accordingly. After adhesive application, the fibers drop to a conveyor belt (7) positioned at least 1,5m lower down, and the belt speed is adjusted so that the fiber level on the belt is less than 300mm, and the fibers drop into a spray head. The adhesive is high-reaction adhesive. The adhesive applicator (2) is positioned directly above a fiber mat forming belt, and the grate aperture size corresponds to max. mat width.

IPC 8 full level

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CPC (source: EP)

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