

Title (en)
Nozzle bar

Title (de)
Düsenleiste

Title (fr)
Rampe de buses

Publication
EP 2065499 B1 20101110 (DE)

Application
EP 08161274 A 20080728

Priority
DE 102007057918 A 20071201

Abstract (en)
[origin: CN101444766A] The present invention relates to a nozzle bar for generating fluid beam when consolidating non-woven fabric. The nozzle has a metal plate, which exhibits a number of nozzle openings, which are arranged next to each other between an upper inlet surface and a lower outlet surface. The nozzle openings are formed by a nozzle hole, where the nozzle hole extends from the inlet surface to the outlet surface on the metal plate and is formed by a plurality of continuous transitional hole segments. In order to obtain a spraying beam with maximum kinetic energy as accurate as possible, the nozzle hole of the invention has three boring sections, where the first boring section forms a capillary zone for bundling the fluid jet. The middle section forms an expansion zone for widening the fluid jet. The third section forms a discharge zone for guiding the fluid beam.

IPC 8 full level
B05B 1/20 (2006.01); **D04H 1/492** (2012.01)

CPC (source: EP US)
B05B 1/20 (2013.01 - EP US); **D04H 1/492** (2013.01 - EP); **D04H 18/04** (2013.01 - EP); **B05B 1/3402** (2018.07 - EP US); **B05C 5/027** (2013.01 - EP)

Cited by
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DE FR

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