

Title (en)

Method and apparatus for spreading fiber strands

Title (de)

Verfahren und Vorrichtung zur Ausbreitung von Fasersträngen

Title (fr)

Procédé et appareil pour étaler des brins de fibres

Publication

EP 2377978 A1 20111019 (EN)

Application

EP 10160270 A 20100419

Priority

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Abstract (en)

The present invention provides a spreader assembly (2) suitable for opening and spreading a fiber strand into smaller strands or individual filaments. The spreader assembly (2) comprises at least one passageway (21) having an inlet opening (211) for receiving said fiber strand and having an outlet opening (232) through which said fiber strand exits said passageway (21), a divergent zone (23) within the passageway (21) having an entrance end (231) and an exit end (232), and at least one through hole (242) connected to the passageway (21) at an angle and suitable for introducing the air flow thereto. In order to increase the efficacy of opening a fiber strand, the angle of through hole (242) is substantially perpendicular with respect to the longitudinal direction of the passageway (21). In order to increase efficacy of spreading the opened fibers, the divergent zone has a flat cross-section and the area of said exit end (232) is larger than the one of the entrance end (231).

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

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