

Title (en)
Machine for the production of a patterned textile product and nonwoven product produced therefrom

Title (de)
Vorrichtung zur Herstellung eines gemusterten Textilproduktes und daraus hergestellter Vliesstoff

Title (fr)
Machine de production d'un produit textile à motifs et produit non tissé ainsi obtenu

Publication
EP 1327712 A1 20030716 (FR)

Application
EP 03290013 A 20030103

Priority
FR 0200419 A 20020115

Abstract (en)
The machine consists of a rotating drum (1) with a perforated lateral surface, a cover (4) with holes of under 1 mm in diameter covering 7 to 50 per cent of its surface, and an outer perforated sleeve (5) with holes (6) having at least one dimension greater than 2 mm. Outside the drum there is a system (8, 9) for delivering water jets into it, and a unit (7) for creating a depression inside the drum. The sleeve (5) is between 0.1 and 2.5 mm thick, and the holes in its surface cover between 10 and 70 per cent of its total area, being separated by bridges with micro perforations of 50 - 500 microns diameter. During operation the fabric is passed over the drum while water jets are forced through it, creating a pattern of small raised areas, the surfaces of which are flat and have few projecting fibre ends.

Abstract (fr)
Manchon de production d'un non tissé comprenant enfilés sur un tambour (1) successivement un manchon (4) et une gaine (5) perforée, la gaine ayant des ajours (6) dont au moins une dimension est supérieure à 2 mm. <IMAGE>

IPC 1-7
D04H 1/72; D04H 1/46

IPC 8 full level
D04H 1/067 (2012.01); **D04H 1/4258** (2012.01); **D04H 1/435** (2012.01); **D04H 1/495** (2012.01); **D04H 1/70** (2012.01); **D04H 18/04** (2012.01)

CPC (source: EP US)
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Citation (search report)
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