

## 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)

**D04H 1/067** (2013.01 - EP US); **D04H 1/4258** (2013.01 - EP US); **D04H 1/435** (2013.01 - EP US); **D04H 1/495** (2013.01 - EP US); **D04H 3/11** (2013.01 - EP US); **D04H 5/03** (2013.01 - EP US); **D04H 18/04** (2013.01 - EP US); **Y10T 428/23929** (2015.04 - EP US); **Y10T 428/24479** (2015.01 - EP US); **Y10T 428/24595** (2015.01 - EP US); **Y10T 428/24603** (2015.01 - EP US); **Y10T 428/24612** (2015.01 - EP US); **Y10T 428/2481** (2015.01 - EP US); **Y10T 442/682** (2015.04 - EP US); **Y10T 442/689** (2015.04 - EP US); **Y10T 442/69** (2015.04 - EP US)

## Citation (search report)

- [Y] US 6055710 A 20000502 - FLEISSNER GEROLD [CH]
- [Y] US 5768756 A 19980623 - NOELLE FREDERIC [FR]
- [DA] FR 2799214 A1 20010406 - ICBT PERFOJET SA [FR]
- [A] US 3679535 A 19720725 - KALWAITES FRANK

## Cited by

CN113062047A; CN107532352A; CN100453723C; EP1767680A1; WO2006123063A3; EP1885927B2

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

## DOCDB simple family (publication)

**EP 1327712 A1 20030716**; **EP 1327712 B1 20050427**; AT E294270 T1 20050515; DE 60300540 D1 20050602; DE 60300540 T2 20051110; DE 60300540 T4 20080214; ES 2238067 T3 20050816; FR 2834725 A1 20030718; FR 2834725 B1 20040611; IL 153944 A0 20030731; IL 153944 A 20080708; US 2003131454 A1 20030717; US 2005095403 A1 20050505; US 6865784 B2 20050315; US 7758945 B2 20100720

## DOCDB simple family (application)

**EP 03290013 A 20030103**; AT 03290013 T 20030103; DE 60300540 A 20030103; DE 60300540 T 20030103; ES 03290013 T 20030103; FR 0200419 A 20020115; IL 15394403 A 20030114; US 33141102 A 20021230; US 98096404 A 20041104