

Title (en)

Process and apparatus for producing non-woven mineral wool, in particular rock wool.

Title (de)

Verfahren und Einrichtung zur Herstellung von Mineralwollevliesen aus insbesondere Steinwolle.

Title (fr)

Procédé et dispositif de fabrication de non tissés en laine minérale, en particulier laine de roche.

Publication

EP 0404982 B1 19950215 (DE)

Application

EP 89111855 A 19890629

Priority

EP 89111855 A 19890629

Abstract (en)

[origin: EP0404982A1] In the continuous production of non-woven mineral wool, fibre/gas/air mixtures (3, 4) generated by a plurality of unravelling units (14 to 17) are directed, to form a wool lap (25), onto collecting conveyor units (19, 21) having curved suction surfaces (c, d) which are under suction pressure. The arrangement is such that each fibre/gas/air mixture formed by the individual unravelling units (14 to 17) is assigned an imaginary suction surface increasing in size in the conveying direction, specifically d c. It is thereby possible, in a space-saving design, with a constant suction pressure to produce on each collecting conveyor unit mineral-wool laps of rock wool with bulk densities even below 25 kg/m³ of good product quality. Furthermore, multi-layered felt webs can be formed by connecting a plurality of units in series or by an oscillating deposition of an individual lap. <IMAGE>

IPC 1-7

D04H 1/00; **D04H 1/72**

IPC 8 full level

D04H 1/00 (2006.01); **D04H 1/4209** (2012.01); **D04H 1/4226** (2012.01); **D04H 1/72** (2012.01); **D04H 1/732** (2012.01); **D04H 1/736** (2012.01)

CPC (source: EP)

D04H 1/00 (2013.01); **D04H 1/4209** (2013.01); **D04H 1/4226** (2013.01); **D04H 1/72** (2013.01); **D04H 1/732** (2013.01); **D04H 1/736** (2013.01)

Cited by

EP0547587A1; EP1331297A1; EP2695984A1; CN113778029A; CN115538040A; US7687416B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0404982 A1 19910102; **EP 0404982 B1 19950215**; AT E118561 T1 19950315; DE 58909013 D1 19950323; ES 2070146 T3 19950601

DOCDB simple family (application)

EP 89111855 A 19890629; AT 89111855 T 19890629; DE 58909013 T 19890629; ES 89111855 T 19890629