

Title (en)

CIRCULAR KNITTING MACHINE FOR FINE KNITWEAR WITH AIR PERMEABLE HOLES

Title (de)

RUNDSTRICKMASCHINE FÜR FEINE MASCHENWARE MIT LUFTDURCHLÄSSIGEN LÖCHERN

Title (fr)

MÉTIER À TRICOTER CIRCULAIRES POUR LA RÉALISATION DES TRICOTS FINS DOTÉS DE TROUS PERMÉABLES À L'AIR

Publication

EP 3165647 A1 20170510 (EN)

Application

EP 15193467 A 20151106

Priority

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Abstract (en)

A fine knitwear of circular knitting machines with air permeable holes (21) is a single face fabric knitted via a circular knitting machine (40) with knitting fineness #24 needles/inch. The fine knitwear (20) includes a plurality of air permeable holes (21) that are spaced from each other. Each air permeable hole (21) includes: at least one transferred yarn (300) located above the air permeable hole (21) and formed via interactive movements of a Dial sinker (60) and a plurality of latch needles (50) perpendicular to the Dial sinker (60) and a first support loop (311) and a second support loop (312) that are formed via interactive movements of the Dial sinker (60) and the latch needles (50) and symmetrical against the transferred yarn (300) on the left side and the right side of the transferred yarn to support and tie the transferred yarn. The fine knitwear (20) thus formed not only can meet market and consumers' requirements of providing more comfortable cooling, the width of the air permeable holes (21) also can be changed flexibly in response to different requirements in the industry, hence can meet emergency requirements in response to change of the market.

IPC 8 full level

D04B 1/10 (2006.01); **D04B 9/22** (2006.01); **D04B 15/02** (2006.01)

CPC (source: EP)

D04B 1/104 (2013.01); **D04B 9/22** (2013.01); **D04B 15/02** (2013.01); **D10B 2403/02** (2013.01)

Citation (applicant)

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Citation (search report)

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- [XA] GB 556084 A 19430920 - EDWIN WILDT, et al
- [A] WO 2005092199 A1 20051006 - LEE SARA CORP [US], et al
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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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