Title (en)

AN AUTOMATED METHOD FOR KNITTING A TAILORED THREE-DIMENSIONAL GARMENT, A KNIT GARMENT AND A PATTERN DESIGN

Title (de)

AUTOMATISIERTES VERFAHREN ZUM STRICKEN EINES MASSGESCHNEIDERTEN DREIDIMENSIONALEN KLEIDUNGSSTÜCKS, STRICKKLEIDUNG UND MUSTERDESIGN

Title (fr)

PROCÉDÉ AUTOMATISÉ DE TRICOTAGE D'UN VÊTEMENT TRIDIMENSIONNEL PERSONNALISÉ, VÊTEMENT TRICOTÉ ET CONCEPTION DE MOTIF

Publication

EP 4365344 A1 20240508 (EN)

Application

EP 22205011 A 20221102

Priority

EP 22205011 A 20221102

Abstract (en)

The present invention provides for an automated process for producing knit garments (400) having a tailored look when worn by wearers having different body shapes. Through a combination of woven fibre tailoring techniques, adapted to the domain of knit fabrics, and an innovative approach to programming a three-dimensional seamless garment knitting machine to knit the garment in a new way, a knit garment (400) can be produced which adapts to fit different wearers having different body types while following the wearer's anatomy and providing support where required, thus allowing the same garment to provide a tailored look to different wearers having different body shapes.

IPC 8 full level

D04B 1/24 (2006.01)

CPC (source: EP)

D04B 1/24 (2013.01); D10B 2403/032 (2013.01)

Citation (applicant)
- EP 0533612 B1 20011128 - SHIMA SEIKI MFG [JP]
- EP 2418310 B1 20150708 - SHIMA SEIKI MFG [JP]
- EP 1652983 B1 20110302 - SHIMA SEIKI MFG [JP]
- EP 1444393 B1 20100721 - UNIV MANCHESTER [GB]

Citation (search report)
- [XA] US 4197724 A 19800415 - ROBINSON FRANK [GB], et al
- [X] EP 2759625 A2 20140730 - SHIMA SEIKI MFG [JP]
- [XA] WO 2016018904 A1 20160204 - NIKE INNOVATE CV [US], et al
- [A] US 2120035 A 19380607 - NEWBERGER HERMAN H

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4365344 A1 20240508; WO 2024094577 A1 20240510

DOCDB simple family (application)

EP 22205011 A 20221102; EP 2023080128 W 20231027