New method for shaping textile articles and device for fabricating it out

KEYWORDS: tailor-made, fabric offcuts, anthropomechatronic system, manufacturing process, manual, automatic, creation process.

BACKGROUND

In the conventional clothing industry, garments are usually not conceived and manufactured by taking into consideration the singularity of a specific silhouette or the customer's expectations. Textile design and fashion design are besides developed as process completely separated from each other. Custom-made craftsmanship, on the other hand, is usually associated with expensive raw materials and high production costs due to the time spent in making the garment and to the numerous fabric scraps. It is therefore necessary to overcome the disadvantages of traditional processes for making a custom-made garment while reducing the production costs associated with fabric scraps.

DESCRIPTION

The invention consists of an automatic or semi-automatic process for making a tailor-made garment without fabric falling off. The manufacture of a textile article is carried out from a new interlacing technique of a continous thread sitting at the intersection of weaving, knitting and lace. The garments are knitted from body data that may or may not have been digitized beforehand, in order to reduce textile offcuts and thus offer a tailor-made solution on an industrial scale. This equipment revisits the " tailor-made " by proposing to elaborate new garments according to anthropodimensional measurements thanks to an equipment capable of multi modal dialogue, from 100% manual to 100% automatic electronically controlled.

COMPETITIVE ADVANTAGE

- Simplification of the manufacture of made-to-measure garments
- Design of custom-made clothing close to the price and speed of ready-to-wear manufacture
- Elimination of the usual textile offcuts
- Rapid prototyping
- Semi-automated/automated/semi-manual creation process

PRINCIPAL MARKETS

- Textile-clothing
- Sport
- Transport
- luxury industry
- Wind industry
- Aeronautic industry

FIELDS OF APPLICATION

- Tailor-made textile
- Tailor-made clothes

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LABORATORY

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INTELLECUAL PROPERTY

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Table de tricotissage et vêtements tricotissés, Clinique Vestimentaire, 2019. Crédits photo Mathieu Faluomi.

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