Endorsed by the Leading Experts, Published in VIEW TEXTILES FORECAST Issue 150 Season A/W 2026/27 directly after Editor-in-Chief, and Formally cited within Nike Innovate C.V. innovation, alongside Adidas AG and Nike Innovate C.V. patents by GOOGLE PATENTS — marking a new benchmark in apparel engineering.

NATALIYA DOLENKO GENÈVE SA, Switzerland

Presents a fully tested, patented apparel engineering technology that redefines fit, production logic, and scalability – delivering luxury results at mass-market scale and cost – making it the only patented method capable of delivering personalised garments without manual intervention or separate customisation processes.

Built on Responsive Tailoring and Dynamic Fit Adjustment, the invention moves beyond self-adjustment as a standalone function — introducing full-garment adaptability with simultaneous reinforcement to deliver a Perfect Dynamic Fit using a Single Fibre. Garments self-adjust in real time to the wearer's movement, shape, and posture, while preserving the sharpness of traditional tailoring. Combining the flexibility of knitwear with bespoke structure and precision, the Method delivers perfect fit at industrial scale on fully-fashioned programmable machines.

The logic-driven programming transforms every stage of development and production into a controlled system – from initial design to final reuse. By replacing rigid sizing with intelligent structural logic, the system eliminates fit uncertainty and outdated sizing models. Three self-adjusting sizes replace eight conventional ones, enabling a market expansion coefficient of 2.67.

The result is a fully scalable, digitally controlled foundation for mass-personalised garments – removing inefficiencies at the source, the Method cuts unsold inventory, returns, overproduction, and waste – establishing a new standard for circular manufacturing at scale.

Rooted in engineering, computer science, textile and apparel technology, the Method remains the only viable pathway for scalable, self-adjusting garments – including future hybrid systems of high-tech knit with 3D print – laying the foundation for full lifecycle coordination and the emergence of Predictive Apparel Systems.

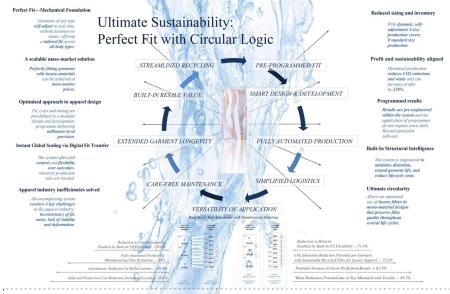
APPAREL DISKUPTION: UNLOCKING FUTURE EFFICIENCY

PRESS RELEASE

AN EXECUTIVE SUMMARY

KEY APPAREL INNOVATION 2026/27

SYSTEMS FOR SCALABLE PRECISION IN APPAREL



ENGINEERING & COMPUTER SCIENCE Infinite Scalability of The Perfect Fit
APPAREL & TEXTILE ENGINEERING

NATALIYA DOLENKO

FIT— IMPACT

A SOLUTION TO FOUR KEY MANUFACTURING ISSUES: Fit • Waste • Stability • Deformation

The patented Correlation Method sets a new industry standard by solving four critical challenges that have long hindered efficiency, profitability, and circularity in apparel manufacturing.

- Perfect Dynamic Fit: Self-adjusting garments eliminate sizing issues in mass production by dynamically responding to movement, shape, and posture. Each construction covers with perfect fit up to four adjacent sizes, replacing eight conventional ones with just three programmable designs, achieving mass-scale precision with minimal configuration.
- Material Waste Minimisation: Pre-programmed logic eliminates iterative prototyping by embedding predictability from the start. Combined with 3D programmable knitwear technology, this results in exceptionally low production waste. The reduced sizing model also cuts unsold inventory by up to 78.6%.
- **Structural Reinforcement in Knitwear**: The Method integrates reinforcement within the garment itself overcoming knitwear's traditional limitations in form retention and enabling tailored-like precision without secondary components or finishing stages.
- Deformation Resistance and Longevity: By coordinating structural logic with the garment's mechanical behaviour, the product maintains fit and form throughout wear. This engineered resilience ensures reduced degradation, extending product life and supporting circularity at scale.

Mapping Scalable Precision in Apparel

Mapping Scalable Precision in Apparel

Formation of the Property of the

A Structural Transformation Through Programmable Fit, Longevity, and Circularity

The Value of Certainty: Intellectual Property Leadership

NATALIYA DOLENKO"

Positioned alongside key developments from industry pioneers such as ADIDAS AG and NIKE INNOVATE V.C., NATALIYA DOLENKO GENÈVE SA patented process is the foundation for the next generation in apparel production – extending the capabilities of programmable knitwear and enabling scalable, predictive apparel engineering for the first time.

Informational Sources (publicly available patent records):

- Google Patents database citation trail for WO2016018904A1 (Nike Innovate C.V.), including references to cited patents by Adidas AG and Nataliya Dolenko Genève SA WO2016018904A1
- WIPO (World Intellectual Property Organisation) publication WO2024094577 (Nataliya Dolenko Geneve SA) WO2024094577
- USPTO (United States Patent and Trademark Office) publication US12226973B2 (Nike Inc.) US12226973B2

3D KNIT: PATENT-DESIGNATED FIELD 3D PRINT + 3D KNIT HYBRID SYSTEM: PROTECTED BY PATENT PRINCIPLES

Cited by: Google Patents - WO2016018904A1 (Nike Innovate C.V.)

NATALIYA DOLENKO GENÈVE SA EP4365344A1 * Priority: 2022-11-02 Publication: 2024-05-08 An automated method for knitting a tailored three-dimensional garment, a knit garment and a pattern design

3D PRINT

formation source USPTO: US12226973B2 (Nike Inc.):

NIKE INC. US12226973B2 Priority:2023-12-20 Publication: 2025-02-18

Footwear assembly method

3D KNIT

Google Patents - WO2023069764A3 (Nike Innovate C.V.):

NIKE INNOVATE C.V. W02023069764A3 * Priority: 2021-10-22 Publication: 2023-07-13 Articles of footwear with knitted components and methods of manufacturing the same

Google Patents - EP4365344A1 (Nataliya Dolenko Genève SA)

IP LANDSCAPES: ENGINEERING & COMPUTER SCIENCE/ TEXTILE ENGINEERING/ OUTER GARMENTS AND COATS

FOUNDATIONAL

oogle Patents - WO2016018904A1 (Nike Innovate C.V.)

IP/L/ANDSCAPES: ENGINEERING & COMPUTER SCIENCE/ TEXTILE ENGINEERING/ FOOTWEAR AND ITS ACCESSORY

Cited by: Google Patents - WO2016018904A1 (Nike Innovate C.V.): NIKE INNOVATE C.V. WO2016018904A1 Priority: 2015-07-28 Publication: 2016-02-04 Article of footwear incorporating an upper with a shifted knit structure Cited by: Google Patents - WO2016018904A1 (Nike Innovate C.V.): ADIDAS AG US10455885B2 Priority: 2014-10-02 Publication: 2019-10-29 Flat weft-knitted upper for sports shoes Cited by: Google Patents - WO2016018904A1 (Nike Innovate C.V.) ADIDAS AG US11044963B2 Priority: 2014-02-11 Publication: 2021-06-29 Soccer shoe Cited by: Google Patents - WO2016018904A1 (Nike Innovate C.V.) US11589637B2 Priority: 2013-04-19 Publication: 2023-02-28 ADIDAS AG Layered shoe upper Cited by: Google Patents - WO2016018904A1 (Nike Innovate C.V.): Priority: 2013-04-19 Publication: 2020-11-17 Shoe ADIDAS AG US10834992B2 Cited by: Google Patents - WO2016018904A1 (Nike Innovate C.V.): US12250994B2 Priority: 2013-04-19 Publication: 2025-03-18 Shoe ADIDAS AG Cited by: Google Patents - WO2016018904A1 (Nike Innovate C.V.): ADIDAS AG US12082639B2 Priority: 2012-04-13 Publication: 2024-09-10 Shoe upper

Cited by: Google Patents - WO2016018904A1 (Nike

* Cited by examiner

** NATALIYA DOLENKO GENÈVE SA NOTE: EP4365344A1 converted into Information source: Patentscope WIPO-

WO2024094577 (Nataliya Dolenko Genève SA)

WO2024094577

Priority: 2022-11-02 International Filing Date: 2023-10-27 Publication: 2024-05-10

An automated method for knitting a tailored three-dimensional garment, and a knit garment

NATALIYA DOLENKO"

Longevity, and Circularity

Achieved: A COMPLETE SYSTEM TRANSFORMATION

The Method redefines the system, making fit, lifecycle and circularity programmable from the outset. It transforms the way apparel is designed, produced and scaled: digitally, operationally and commercially. This innovation creates a new category of precision-controlled manufacturing, with technical and environmental benefits unmatched by existing methods. For the first time, two previously incomparable systems can be directly evaluated:

- Self-adjusting, perfectly tailored garments made with the patented Method
- High-end tailored garments made with traditional cut and sew

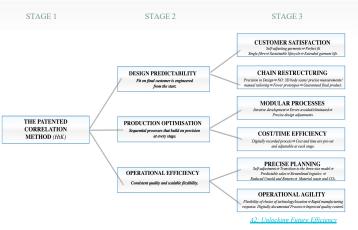
The Method enables mass-produced garments with luxurious fit, structural elegance and extended wear - without compromise. It replaces fragmentation with full system optimisation - maximising material use and minimising waste at every stage.



- Production Time Reduction: 84.09
- Production Cost Reduction: 73,7%
- Skilled Workforce Reduction: 99.9%
- Space Efficiency: +99%
- Insold Rate Reduction Potential: 78.6%
- Return Rate Reduction Potential: 71.4%
- **Adjusted Production Cost Reduction** Including Unsold: - 76.8%
- Waste Reduction Including Unsold Garments: - 82.4%
- Waste Reduction per Garment Sold: 84.9%

- Waste Reduction Enabled by Expanded Customer Reach: - 85.3%
- Electricity Use Reduction: 66.7%
- CO₂ Emissions Reduction per Garment with Sustainable Recycled Fibre for Luxury Apparel: - 72.0%
- Luxury Fibre Waste Reduction: 91.2%
- Reduced Recycling Costs: 77.8%
- **Increase in Net Profit: +235%**
- Potential CO₂ Emissions Avoided:

IMPACT



- Manufacturing Flexibility: Works on all programmable high-tech knitwear platforms (Seamless, 3D Knit, WholeGarment).
- Creative Control: High-tech precision supports couture-level of fit and production accuracy.
- Supply Chain Resilience: 1,368 times less reliance on highly skilled labour compared to tailored cut-and-sew, rigid supply networks, or local
- Customer-Centric Agility: Enables on-demand or scaled production with full consistency.
- Continuous Output: Machines can run 24/7 with digital program files.
- Traceable and Transparent: Digitally documented at every stage for control and accountability
- **Applications:** Apparel, Medical Wearables, Sportswear, Industrial Use.

WORLD INTELLECTUAL PROPERTY ORGANISATION (WIPO) APPLICATION NUMBER PCT/EP2023/08012. PUBLICATION DATE: 10.05.2024 WO2024094577 - AN AUTOMATED METHOD FOR KNITTING A TAILORED THREE-DIMENSIONAL GARMENT, AND A KNIT GARMENT

This innovation marks a definitive advancement in apparel technology. It enables garments to dynamically adjust to different body shapes - delivering a level of fit and adaptability previously unattainable in mass production.

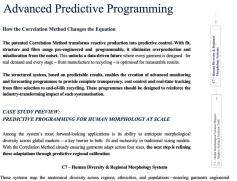
ABSTRACT "(EN) The present invention provides an automated process for producing knitted garments having a tailored look when worn by wearers with different body shapes. Through a combination of woven fibre tailoring techniques adapted to the field of knitted fabrics and an innovative approach to programming a three-dimensional seamless garment knitting machine to knit the garment in a new way, a knitted garment can be produced which adapts to 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." 49-Pate

A New Frontier: FOUNDATION FOR FULL-CHAIN **PREDICTABILITY**

The structured system, based on predictable results, enables the creation of Advanced Monitoring and Forecasting Programmes to provide complete transparency, cost control and real-time tracking from fibre selection to end-oflife recycling. These programmes should be designed to reinforce the industry-transforming impact of such systematisation (A10: Advanced Predictive Programming).

SYSTEMATISATION:

Moving the industry: **From** \rightarrow Reactive & Fragmented **To** \rightarrow Predictive & Structured



with the patented method adapt optimally to morphological differences across global markets. They guide fit calibration, pattern logic, and scaling across demographically distinct body structures.

C7.1 - Global Morphological Variance Mapr

	SUBCATEGORY	LI	L2	L3	FUNCTION
1.	Regional Body Structure Database	v			A finalistional data set compiling anthropometric references by region, gender, and age.
2.	Ethno-Anatomical Fit Adaptation Tool		v		Translates key morphological distinctions into structural garment logic and pattern zone adjustments.
3.	Population-Based Sizing Logic Simulator		v		Smulates sking needs across markets to optimize scalable design, reduce returns, and and energysolution.
4.	Anatomical Zone Mapping Engine	v			Digitally defines key cones (notion) stability (pressure) by hody type.
5.	Anthropometric Variation Integration System	v			Builds adaptable body templates for true inclusivity in patterning logic.

C7.2 - Adaptive Scaling & Inclusion Tools

	SUBCATEGORY	LI	1.2	IJ	FUNCTION		
1.	Inclusive Pattern Scaling Model	v			Differer rules for pattern scaling that maintain self-adjusting integrity across a wide range of budy shapes.		
2.	Global Morphotype Calibration Engine		v		Aligns morphological data with garment engineering standards to calibrate panel behavior globally.		
3.	Cross-Population Fit Harmoniser			ν	A hormonisation engine that adjusts fit principles for intersectional inclusion (age, ability, efinicity)		
4.	Human Shape Variability Visualisation Suite		v		Enables interactive exploration of discrete body types and how garments self-adapt or scale across them. Supports education, simulation, and visual conformation of inchesivity and logic compatibility.		
5.	Dynamic Torso Movement Interpreter		¥		Analyses apper body rotation and bending patterns to stabilise adaptive cones and maintain garment structure and balance during movement.		
6.	Anatomical Fit Memory Recorder			ν	Captures habitual postures and gestures over time to infirm garment fit consistency—helping garments adopt based on personal motion basery.		

Applicants: NATALIYA DOLENKO GENEVE SA [CH]/[CH]

Inventors: DOLENKO, Nataliya

- Engineering & Computer Science (for programmable
- Apparel and Textile Engineering (for garment construction
- Garments, including Outerwed

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