

# Patented Invention: Legal Path To Dynamic Fit

**The Patented Correlation Method (HiK)** is exclusive and is expected to remain the only viable system for the large-scale production of self-adjusting garments for the foreseeable future. The unique framework is based on its mechanical principles – the precise interaction between the structure of the material and its inherent stretch. By correlating dynamic adaptability with structural integrity, the system achieves controlled flexibility across the entire construction.

## FOUNDATION

The patented process protects the exclusive principles for high-tech programmable knitwear, ensuring innovative outcomes that cannot be replicated by any existing technology. The result is a perfectly tailored dynamic fit that adapts to any body shape, achieved by a self-adjusting mechanism driven by the principle of interactive panel movement.

## Core innovation:

- The principle of interactive panel movement unites the structural qualities of woven garments with the comfort and adaptability of high-tech programmable knitwear, achieving a dynamic balance between stability and flexibility, allowing controlled adaptability in real time. The result is garments that retain the tailored, structured look of woven tailoring, while offering the unrestricted movement of high-tech programmable knitwear.

## PROTECTION

At the heart of this technology is the combination of programmable high-tech knitting with dynamic adaptation mechanisms, enabling unprecedented results in garment fitting on a mass scale. At the patent's core is the integration of woven and knitwear principles, protecting not only the *'what'* – the end result – but also the *'how'*. The claims protect not only the results, but also the defining interactions and features, ensuring that no alternative can circumvent the core principles of the invention.

- **Processes:** The interaction between mechanical panel movement and self-adjusting mechanisms is so integral to the patented process that competitors cannot replicate the results through alternative programming, machine logic, fibre selection, stitch types, or construction techniques. Any attempt to do so would still be based on the core principles protected by the patent.
- **Products:** Even seemingly minor differences – such as aesthetic pattern changes, stitch variations, or design tweaks cannot avoid infringement if they apply the core principle of self-adjusting for dynamic adaptability in the final result.

The patent ensures long-term relevance by anticipating advances and maintaining dominance in the mass-market apparel industry. This also includes a future potential merger of programmable high-tech knitwear with 3D print technologies. By covering dynamic adaptability, mass production efficiency, and multi-size functionality, the patent is future protected against:

- **Incremental Advancements:** Competitors cannot tweak existing methods to replicate the same results.
- **Adjacent Innovations:** Efforts to adapt the principles to other fields (e.g., medical, sportswear) would still fall within the scope of the patent.
- **Core dependency:** To achieve dynamic fit, no existing framework can replicate the results without relying on the principles protected by this patent in the field of high-tech knitwear, including 3D and programmable knitwear, or elsewhere on a mass scale.

**This is the only process capable of creating an unlimited combination of self-adjusting structures, making it a breakthrough solution that integrates innovative principles and advanced manufacturing capabilities to ensure scalable, precise and reliable production of self-adjusting tailored garments. By addressing both current and theoretical challenges, the patent remains indispensable today and resilient to future developments, ensuring its place as the foundation for continuous innovation in the dynamic garment industry.**



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"You are either Einstein of pattern making or mad"

-FOUNDER AND EDITOR-IN-CHIEF  
Of the World's Leading Forecasting Magazine

APPAREL MANUFACTURING INNOVATION; ENGINEERING & COMPUTER SCIENCE/APPAREL & TEXTILE ENGINEERING/GARMENTS



*Infinite Scalability of The Perfect Fit*

### PRIOR ART

#### Prior Art Reference – Footwear Patent

The closest known patent applies to knitted footwear, relying on a sole and fastenings to maintain shape. By contrast, the current invention offers full-body self-adjustment, no fasteners, and tailored shaping through internal reinforcement structures – in a single, uniform garment construction. **The key inventive step: dynamic panel placement combined with reinforcement zones, allowing the garment to actively shape the body – not just respond to it.**