

## **The strategy of designing women apparel with high quality that achieves the economic dimension of sustainability**

**Prof. Amr Mohamed Gamal Eldin Hassouna**

**Design professor at Applied Arts- Helwan University**

**Assist. Prof. Dr. Eman Rafat Saad**

**Assistant professor at Applied Arts- Helwan University**

**Mrs. Aida Mohamed Zayed**

**Fashion & Design center manager- Industry & Trade Ministry**

**Researcher. Doaa Farouk Mohamed Elmor**

**Head of design department- Industry & Trade Ministry**

[Doaa.elmor@gmail.com](mailto:Doaa.elmor@gmail.com)

### **Abstract:**

The remnants of the fabrics resulting from the cutting and individualization processes of the ready-made garment factories have not received sufficient attention, although it is a civilized trend, in addition to the economic and environmental return, as the fabric waste resulting from the ready-made garment factories (from the interlocking, cutting and individual operations), which represents its maximum efficiency of 85%, but it can be Utilizing them by reusing these exhausts (fabrics, the remains of cutting and individualism) in creating innovative designs that suit their specific functional purposes. We note that these industries leave large quantities of exhausts that pollute the environment and the surrounding air From the economic point of view, there are problems such as the large burden of these exhausts, including the transportation, storage, classification and disposal of these wastes in terms of money and labor that increase the economic burdens of these factories, so technically it is possible to deal with these exhausts in a variety of ways and the current research deals with A study of how to make use of these exhausts. The study has purchased the weast cotton fabrics from one of the Italian factories that produce cotton fabrics in the Burj Al Arab area, Alexandria - Egypt, and through those exhausts, a set of physical and mechanical tests of these exhausts were made to ensure their quality and suitability for use in clothing products For women, the results showed the validity of these exhausts (the remnants of the shear and the individual) in terms of weight, thickness, tensile strength, elongation, resistance to topper and explosion resistance. Design proposals were made that serve the garment industry and an opinion poll was made for specialists in the garment money to ensure the quality and suitability of these designs for implementation and produce cost-effective designs Less and high quality, and this experience can be taken advantage of and circulated to ready-to-wear factories to make the most of those exhausts without any harm to the environment.

### **key words:**

Strategy - Design - Quality – Sustainability