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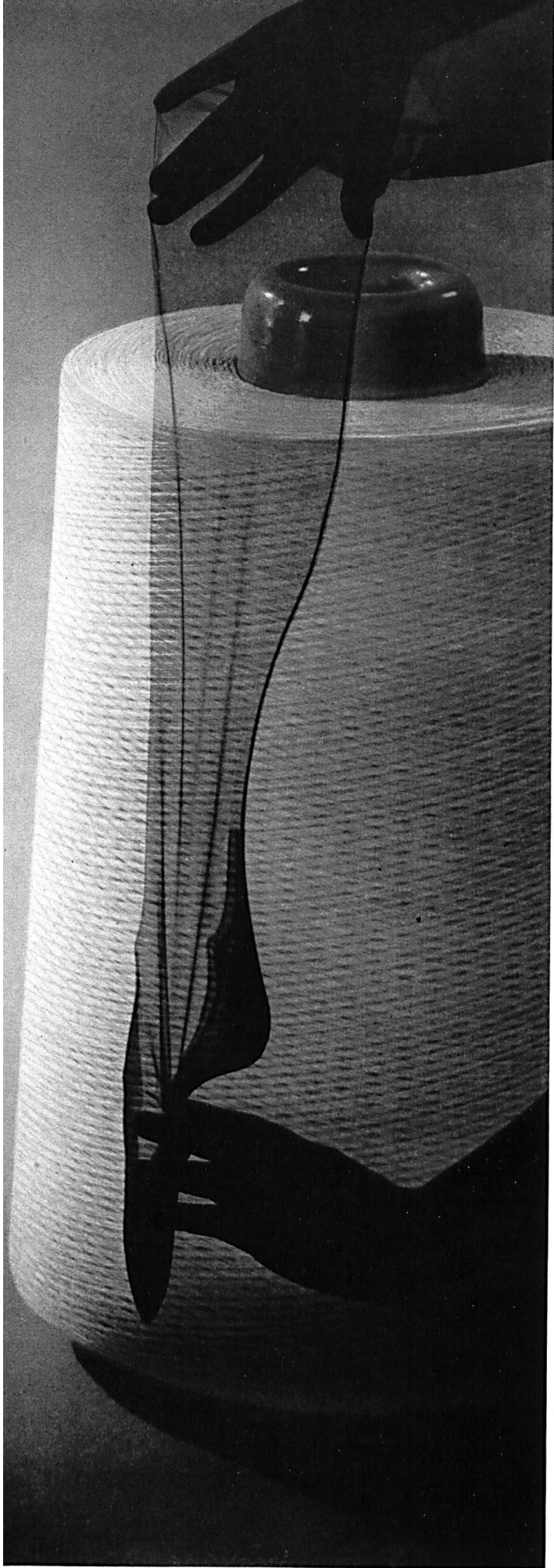
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## The Raw Material for Fine Stockings made on Cotton's Patent Machines

### *The requirements it has to meet*

By its construction, the Cotton's Patent stocking machine requires a yarn which will go through the finest eyes of the guide bars and needles with absolute suppleness and without any friction. The yarn must moreover be regular and absolutely clean, so as to give faultless and uniform stitches. As has always been the case, the twisting establishment is responsible for meeting these two main requirements, for spinning mills are not able to finish yarns sufficiently well, whether of natural or artificial fibres.

For a quarter of a century, silk and rayon were successfully used as raw materials for fine stockings made on Cotton's Patent machines, and it is only since the war that they have gradually had to give way to a certain extent to completely synthetic fibres.

The twisting of a single yarn or several yarns together not only gives the yarn great compactness but also increases its resistance to pulling and friction. The same operation, in certain cases in conjunction with a previous «grenadine» twisting of the single threads, makes it possible to give stockings a very popular moiré effect.

Although this appears simple enough, the preparatory work that has to be done by the throwster in view of the final result is none the less extremely complicated. For hosiery, as for weaving, the yarn must be sized, but the requirements of the Cotton's Patent machine in this respect are very high. It is extremely difficult in the case of pure silk for example to find a textile-oil which will give the yarn both the necessary suppleness and the property of absorbing moisture. When synthetic fibres made their appearance, the throwster found himself faced with entirely new tasks in this field.

In the case of pure silk the problem was to find a means of making the yarn supple, which in its natural state is stiff, whereas in the case of yarns of nylon, perlon and similar materials, it is the surface treatment that is important; these synthetic textiles have an extremely smooth surface and consequently only cause the minimum of friction, but on the other hand they accumulate electrical charges during each operation. Collaboration between the chemist and the engineer have made it possible to overcome this obstacle by means of a special treatment. But the use of the most modern processes depends on the throwster's cleverness and skill which are of great importance in meeting the sometimes contradictory requirements of hosiers working with Cotton's Patent machines. The modern throwster must therefore be able to size the perlon or nylon yarn for working in the dry as well as in the wet state.

The sizing of mixed twists consisting of pure silk and synthetic yarns calls for particular care. First of all the choice of the silk must be made most carefully, so that the natural fibre is equal in purity to the synthetic fibre. The twisting and sizing must keep the advantages of both materials, while losing as far as possible their disadvantages. The best proof that modern twisting establishments are capable of meeting these demands in full is the popularity of mixed yarn stockings with the consumer.

Finally let us say one word about winding: the hosier receives the yarns on cones which must be used at average tension, neither too strong nor too weak. The throwster therefore must supply cones having the exact required degree of consistency, which varies according to the thickness of the yarn. The requirements in this respect vary moreover from one client to the next. The modern throwster is also capable of meeting these requirements.

R. Zinggeler & Co., Silk Twisters, Zurich.

Twists of silk, rayon and synthetic yarns;  
SPECIAL AND MIXED TWISTS of all kinds for weaving, knitting  
and the manufacture of stockings, bolting cloth and cables.



Photo Schmutz & Guniat

**Ruepp & Cie S. A., Sarmenstorf**  
« ALPINIT »

Tricots et jerseys.  
Knitwear and jerseys.  
Géneros de punto y de malla jersey.  
Trikot und Jersey.





**Hochuli & Cie S. A., Safenwil**  
« HOCOSA »

Elégante et fraîche lingerie pour dames.  
Fresh and elegant lingerie for women.  
Elegantes y vaporosas prendas interiores para señora.  
Die duftige und elegante Damenwäsche.

Photo Droz

**Ruegger & Cie, Zofingue**  
« molli »

Ravissante chemise pour dame, tricotée en pure laine.  
Lovely pure wool knitted vest for ladies.  
Encantadora camisa de punto de lana pura, para señora.  
Reizendes Damenhemd gestrickt aus reiner Wolle.



**J. F. Rohrer-Bolliger, Romanshorn**  
« ROBORO »

Elégant pullover en beau tricot à maille fine.  
Smart pullover in fine knitwear.  
Pulóver elegante de punto de malla fina.

Photo Droz



**E. Frey-Gätzi S. A., Degersheim**  
Gants de laine tricotés, pour dames.  
Knitted woollen gloves for ladies.  
Guantes de punto de lana, para señora.  
Gestrickte wollene Damenhandschuhe.

Photo Droz