

COMBINED DRAFTING SPINNING FRAME

Development of a ring-spinning frame on which finished yarns may be produced directly from drawing-frame sliver has been announced by the Hartmann Textile Machine Works, Chemnitz, Ger. This new development has been discussed extensively in the April, 1930, issue of this publication but shall again be described briefly as great interest for this process is apparent. The new frame is introduced in this country by H. H. Leonard, New York, N. Y.

speed with which the first drafting unit runs, the degree of uniformity of the product is equal or higher than that produced by present standard frames. Drafts from 40-400 may be used, depending upon the length and uniformity of the cotton staple.

A special sliver condensing and winding machine, developed by the same company, makes the drawn sliver from the cans into bobbins suitable for insertion in the ring-frame creel. The strand is condensed by

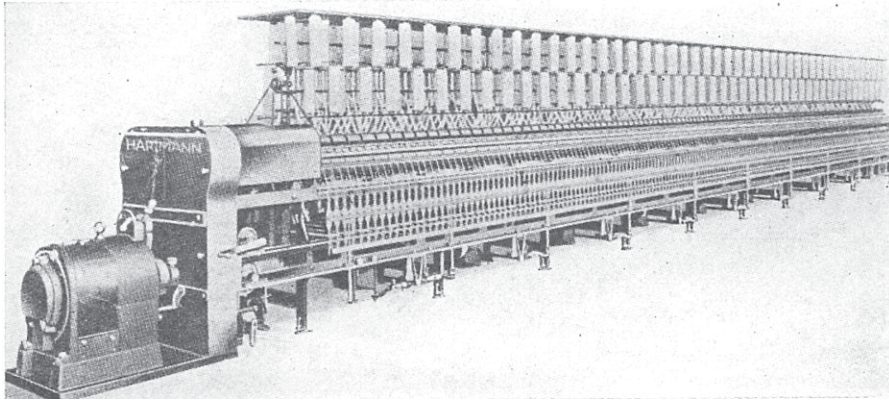


Fig. 1

Super High Draft Ring Frame with Combined Drafting System

This machine enables any desired count of cotton yarn to be spun direct from the drawing frame sliver. Draft performance: 100 to 400 according to length and uniformity of staple. All roving frames dispensed with. Suitable also for producing yarns from staple fibers of rayon.

The outstanding feature of the new frame is its two sets of drafting rollers, between which is arranged a small twist tube for the purpose of condensing the strand and presenting it to the second set of drafting rollers in suitable form, by inserting a false twist. Otherwise the broad, delicate, ribbon-tape produced by the first drawing process could not be passed forward. A three-roller drafting arrangement is used for the first stage of drawing. Its top rollers are weighted with saddles and weights, and an easily operated weight-relieving motion is provided.

The second drawing series is designed as a high-drafting unit and either the Casablancas apron-drafting unit or one of the well-known, pull-through roller drafting devices of the three-roller type may be used.

The elimination of all fly frames is cited as chief advantage of this machine. This means considerable saving in labor, power, space, repair costs, etc. The strand produced by the drawing frame, it is claimed, is more uniform than the fly-frame product as it is usually presented to the ring frame. Due to the very slow

means of rub aprons, and the machine is equipped with a stop-motion, assuring uniform length of sliver on all bobbins.

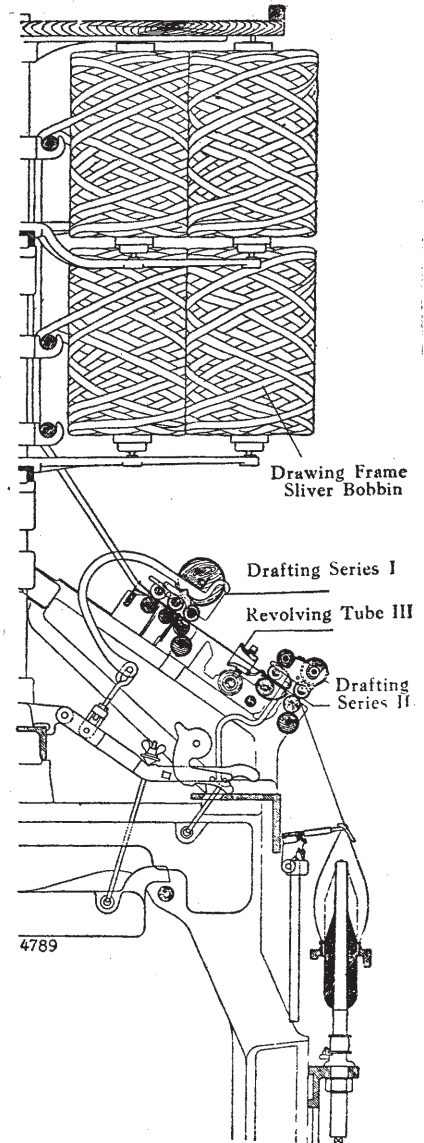


Fig. 2
Combined Drafting System in connection with Casablancas-Apron-Drafting