
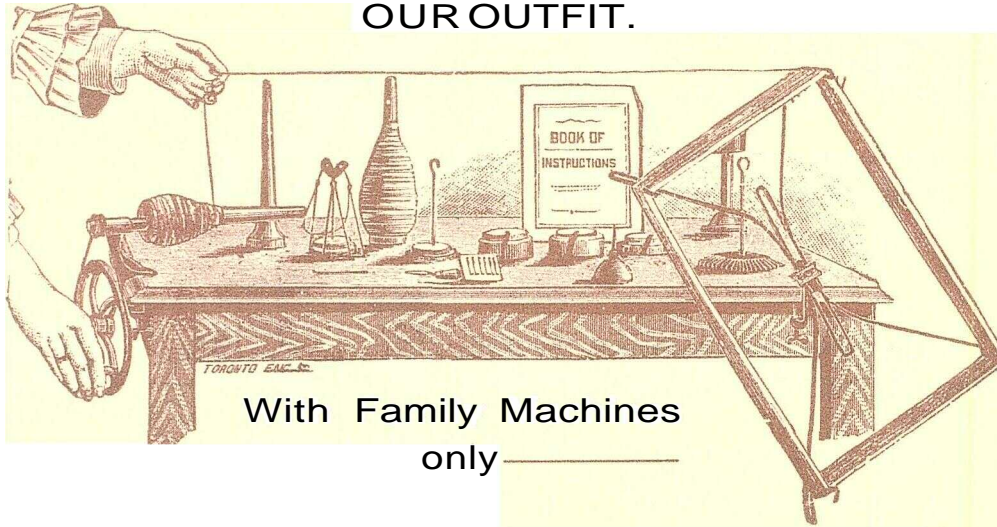


# BOBBIN-WINDING.

20. *Winding Bobbins.* Place Bobbin-winder and yarn-reel as shown in cut, or better still, on same side of table, with yarn-reel to the left, and winder to the right, and from 3 to 5 feet away from winder.

 **The following** outfit accompanies each of our Family machines 4 1/2 inches in diameter, also with 4 inch for export trade. Manufacturing machines and small sizes are not supplied with winder or yarn-reel.

## OUR OUTFIT.



## ALL FREE.

BOBBIN-WINDER.  
YARN-REEL.  
HEEL-HOLDER.  
WEIGHT-HOOKS.  
SET OF 4 WEIGHTS.  
SET-UP.  
OIL-CAN WITH OIL.  
SCREW-DRIVER  
WORK-HOOK.  
3 BOBBINS.  
12 EXTRA NEEDLES.  
INSTRUCTION BOOK.


21. *Bobbin-winder Operators* are like knitting-machines, good, bad and worthless. The first are interested, cultivate good taste, and do their best; the second are careless, indifferent, and lack knowledge; the latter are good-for-nothings.

22. *Wind bobbins well* and the machine will work well, Tie the yarn on bobbin with half-knot only. Commence winding at the bottom or large end of bobbin. Wind into the form of a cone, filling the large end first, with a medium even slope, as represented in out, which shows one bobbin filled and a second bobbin being filled.

23. *Harsh Yarns* should be washed or passed through a

piece of oily-knit goods, or saturated with a mixture of equal parts of oil, soap, water (of pure quality, otherwise the work may smell or be injured) while being wound.

Cotton, silk, and fine yarns should lie wound firmly on bobbin. Do not allow the yarn to sink into bobbin when winding.

 **The best bobbin** is made by oscillating yarn, that is, moving the hand sideways, backward and forward, with a movement of about three inches. This movement should be made quickly. It has the effect of making the yarn cross itself in the operation of winding, and produces a firmer and better bobbin.