

## MECHANICAL LESSON *continued.*

7. **Words of advice to Ambitious Operators** who wish to see the machine go first thing, by taking a short cut before learning the ABC lessons. We advise them, and persons of natural genius or mechanical ability, who can see with one eye open, to proceed at once to 2nd Knitting lesson, page 18, only first give close attention to the following particulars—

### 8. *Short-Cut Instruction* :




1. Remove Ribber, if on the machine.
2. Use fine or medium yarn at first.
3. Tie new yarn to old yarn if on machine.
4. Thread machine as shown by cuts on page 12.
5. See that stitches are on all needles, or

### SHORT-CUT INSTRUCTION—*continued.*



6. Set up work as shown on page 18.
7. Hold work or set-up well down by hand.
8. Turn crank slowly forward.
9. See that yarn passes freely from Bobbin.
10. Regulate tension or stitch to suit yarn.

 *Operators* who find the above Short-cut too difficult, should learn the most simple operations first, namely, Practice-lesson, and especially Flat-web-toe (see page 17, No. 34), before proceeding to knit a man's sock, as described in second Knitting lesson ; or Rib-work which is more difficult than Plain-work.

## THE TENSION OR LENGTH OF STITCH.


### 9. *Long-loose-stitch*" :

1. For a Long-loose-stitch or Open-work ;
2. Lower V-cam by turning tension-screw-head
3. To the left, until pointer on cam-cylinder
4. Lowers, or figures on top of screw-head,
5. Have made one or more turns as required.




### *Short-tight-stitch* :

0. For a Short-tight-stitch or Close-work ;
7. Raise V-cam by turning tension-screw head
8. To the right until pointer on cam-cylinder
9. Raises, or figures on top of tension-screw-head,
10. Have made one or more turns as required.

 *"With the "Banner," "World's Star," "Money-Maker A," and "Dollar-Maker"* the tension or length of stitch is regulated by raising or lowering the V or tension-cam by means of a tension-screw-head with figures on top, found on side of cam-cylinder. See brass indicator on cam-cylinder. For ribber tension see page 52, No. 153. This also applies to "Star" and "New Star" power machines.

10. *The "Improved Money-Maker," "Money-Maker" and "Klondyke"* V or tension-cam is raised or lowered on a tension-screw-post in cam-cylinder, by means of a tension-screw-nut, with figures on the top, and is turned in the same manner as above to regulate the length of stitch. These machines have no brass indicator on cam-cylinder.

11. \* *The "New K" machine* tension or length of stitch, is regulated by raising or lowering the needle-cylinder, by means of the tension-lever, on left side of bed-plate. Moving the tension-lever to the left effects a short-tight-stitch or Close-work, and moving it to the right effects a long-loose-stitch or Open-work.

 *It will be good policy* on the part of new operators, before attempting to do knitting, to practise well the regulating of the tensions, especially the tension of the machine for Plain-work, which can be done the most effectively by knitting a few rounds and changing the tension from Loose to Tight-knitting, and back to Loose-knitting until thoroughly understood.