

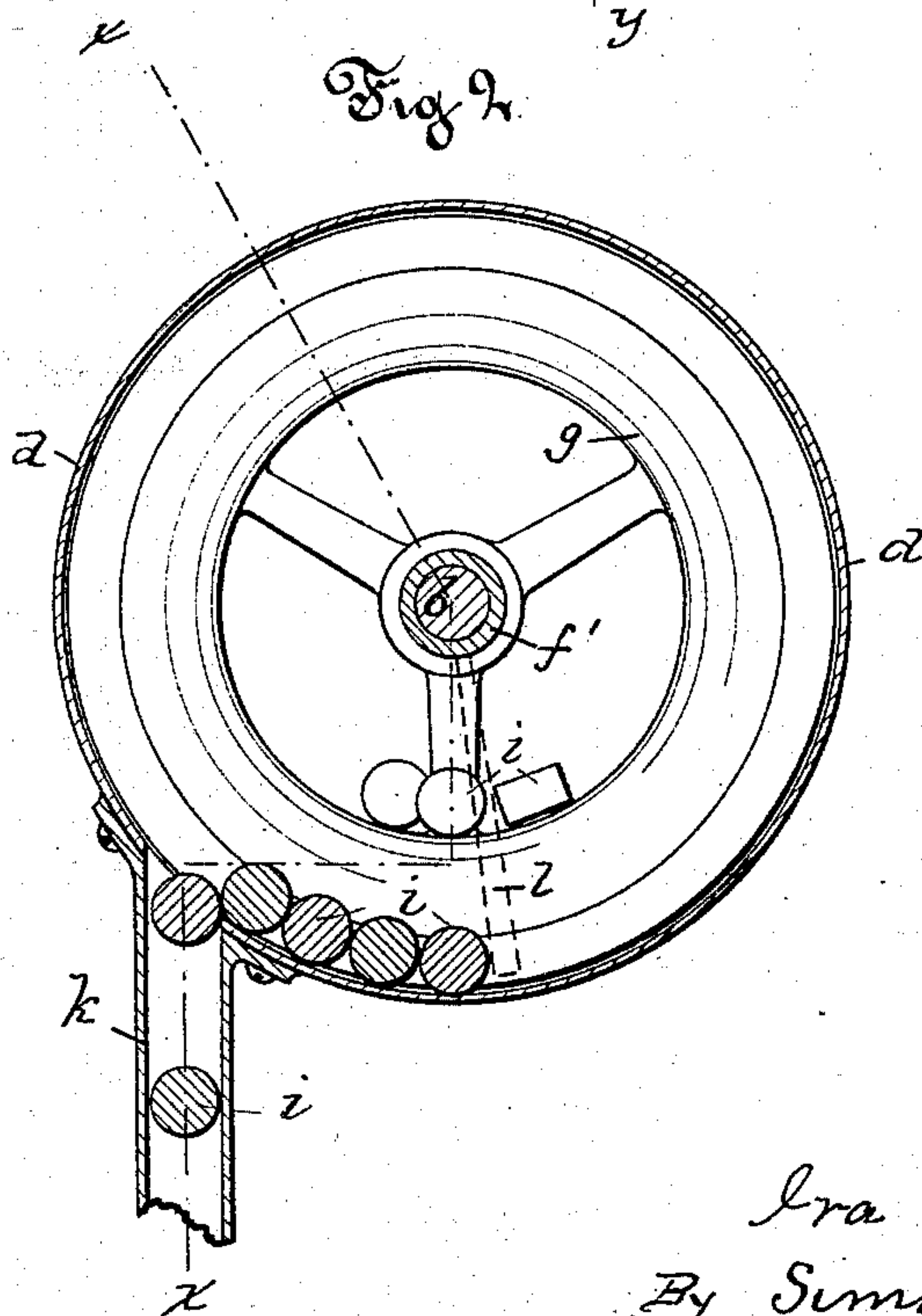
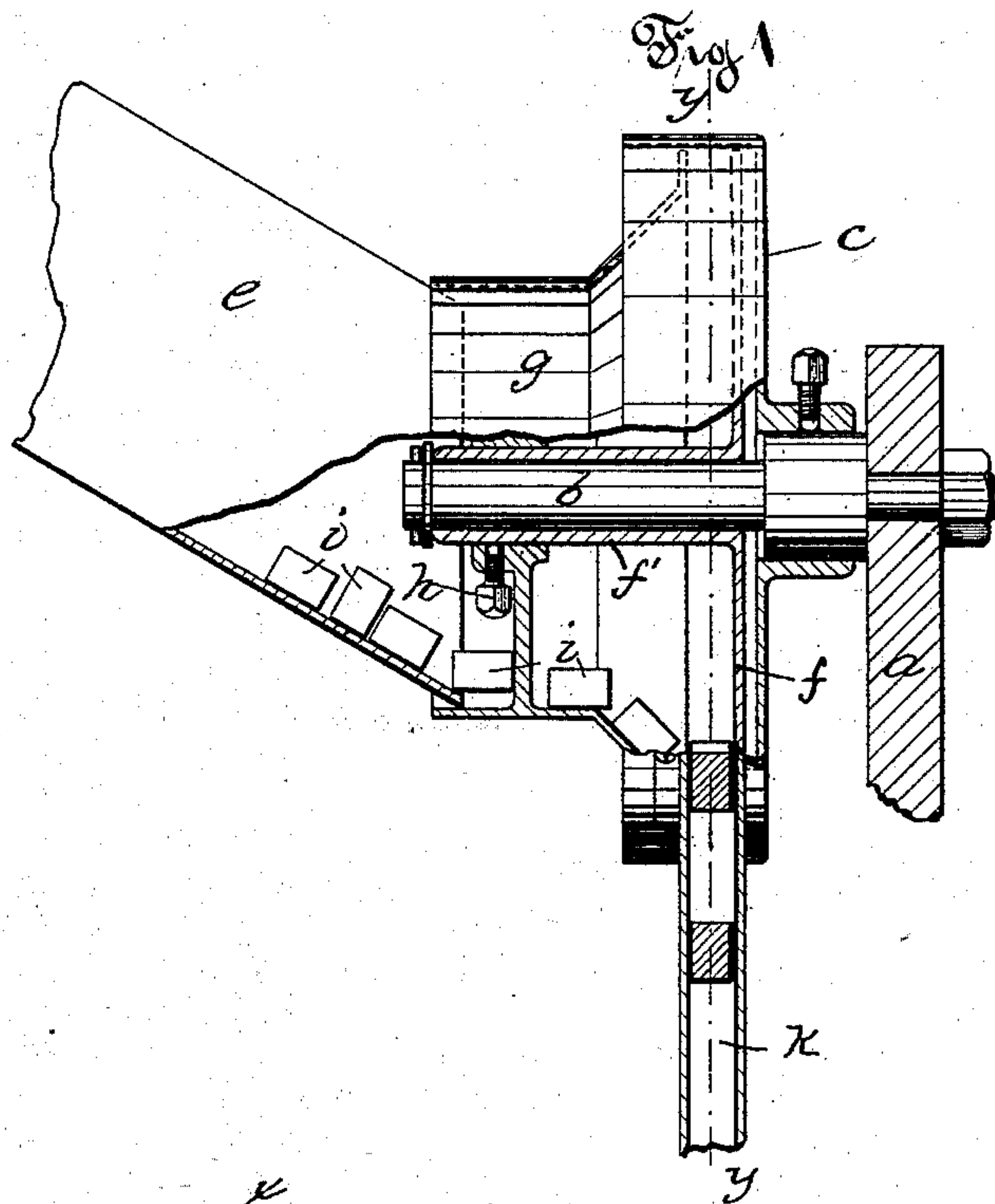
(No Model.)

I. DIMOCK.

DEVICE FOR FEEDING SPOOL BLANKS AND BRAID ROLL BLANKS.

No. 278,320.

Patented May 29, 1883.



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UNITED STATES PATENT OFFICE.

IRA DIMOCK, OF HARTFORD, CONNECTICUT.

DEVICE FOR FEEDING SPOOL-BLANKS AND BRAID-ROLL BLANKS.

SPECIFICATION forming part of Letters Patent No. 278,320, dated May 29, 1883.

Application filed February 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, IRA DIMOCK, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Devices for Feeding Spool-Blanks, Braid-Roll Blanks, and the like, of which the following is a description, reference being had to the accompanying drawings, where—

Figure 1 is a side view of my device with parts cut away to show interior construction, the line of section on the plane of Fig. 2 being shown by dotted lines *x x* in that figure. Fig. 2 is a view in vertical cross-section through the device on plane denoted by dotted lines *y y*.

My invention relates to the class of devices used for feeding blanks of various shapes and material to the machine, where they are delivered individually in succession in proper position for any operation, as boring, turning, and the like.

It consists in the special arrangement and combination of parts to effect the proper delivery into the outlet-tube of blanks—as spool-blanks, braid-roll blanks, and the like—whose length is less than their diameter.

In the accompanying drawings, the letter *a* denotes an arm or standard; *b*, a stud secured to the arm; *c*, a circular disk or cover having a flange, *d*, at or near its periphery and adapted to be secured upon the stud *b* by means of a binding-screw or like device, as shown; *f*, a circular disk fitted closely within the cover, having a centrally-projecting sleeve, *f'*, encircling and turning freely upon the stud and held from longitudinal play by a shoulder on the stud at the inner face and a pin or nut at the outer end of the sleeve. The pulley *g* is considerably less in diameter than the cover *c*, and has a flaring periphery on its inner face, expanding to meet and fit within the flange of the cover to which it is parallel for a certain extent, forming a channel of even width between it and disk *f*. Its hub is fitted to and is longitudinally adjustable upon the sleeve *f'*, and may be secured at any desired point by the binding-screw *h* or similar device. The pulley is driven by a belt from a counter-shaft, and to its open outer face is fitted an inclined hopper, *e*, of any suitable construction, into which the blanks *i* are placed in quantity.

The blank is usually cut from long pieces of wood transversely of the grain, and its measurement in direction of its grain I call its “length,” although the diameter of the strip may be greater than the length, as is the case in all the blanks to which my machine is especially adaptable. The pulley and the appurtenant disk and sleeve rotate between the cover and the hopper, stir up and feed the blanks until they slip edgewise into the peripheral channel, whose width is adapted by the means described to the length of the blanks, and from this channel the blanks feed, one by one, into the outlet-tube *k*, placed preferably at one side of the bottom of the cover. Within the tube the blanks are held from turning edgewise and are delivered at the bottom of the tube to the machine in proper position for the intended operation, as boring.

I have used a flexible finger secured to the sleeve and extending radially, as a stirrer, but secure good delivery of blanks without its aid, except when there are but few blanks remaining in the channel to be fed into the outlet-tube. This stirrer is shown in dotted lines in Fig. 2, extending downward from the sleeve, to which it is fast, into the channel.

I claim as my invention—

1. In combination, the fixed cover *c*, having a peripheral outlet-tube, *k*, the fixed hopper *e*, and the rotary disk *f*, having sleeve *f'*, bearing the adjustable pulley *g*, with flaring periphery, all substantially as described.

2. In combination, the cover *c*, with tube *k*, rotary disk *f*, having sleeve *f'*, longitudinally-adjustable pulley *g*, and stud *b*, all substantially as described.

3. In a blank-feeding device, in combination, the arm or standard *a*, bearing stud *b*, to which is secured a cover, *c*, having an outlet-tube, *k*, the rotary disk *f*, having sleeve *f'*, bearing the pulley *g*, with flaring periphery, hopper *e*, and operating mechanism whereby blanks placed in the hopper are discharged through the outlet-tube, all substantially as described.

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