

No. 704,248.

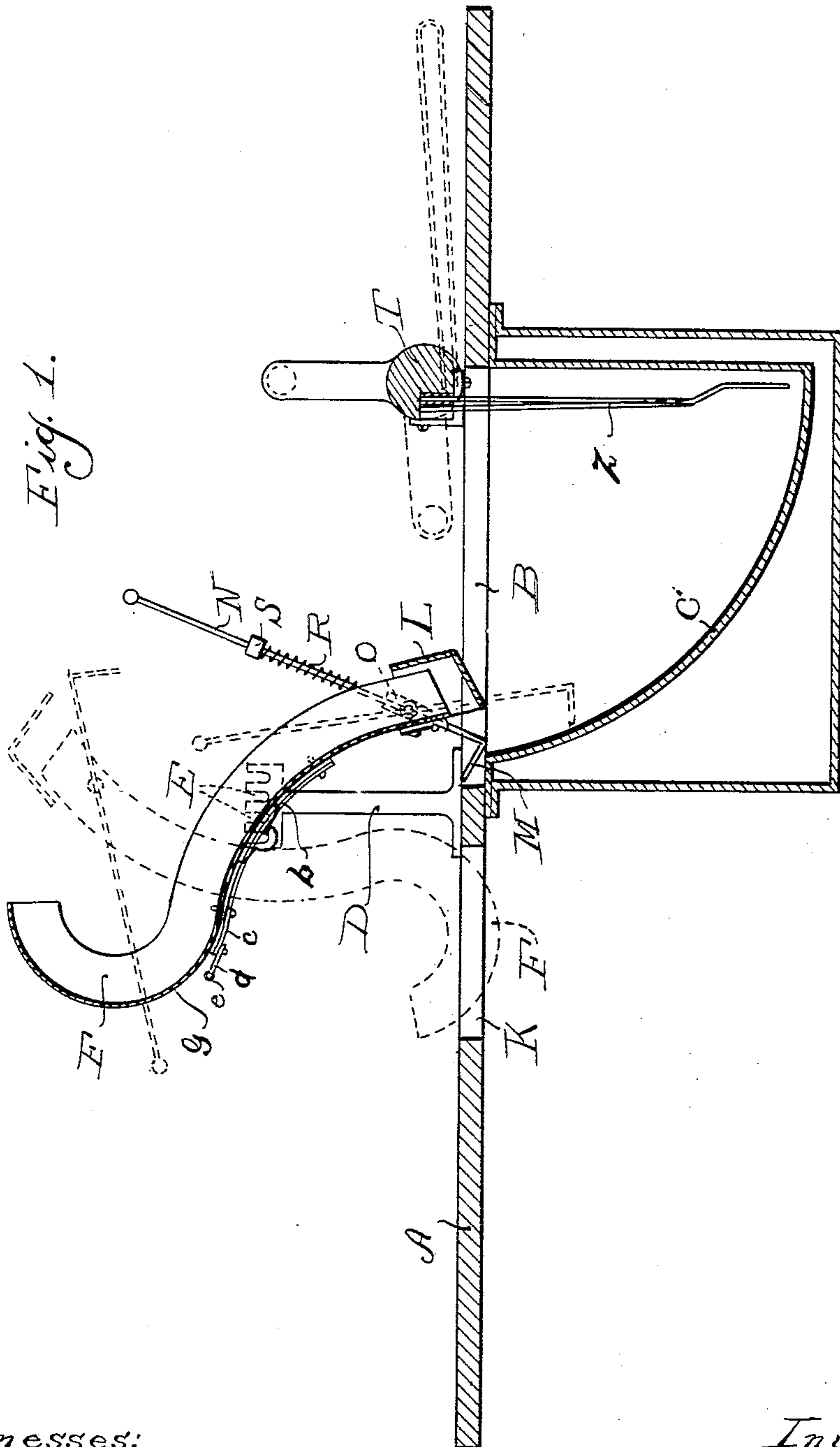
**Patented July 8, 1902.**

**F. GOLDSCHMIDT.**  
**CANDY DIPPING MACHINE.**

(Application filed Oct. 18, 1901.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:

C. F. Wilson  
John Snowhook

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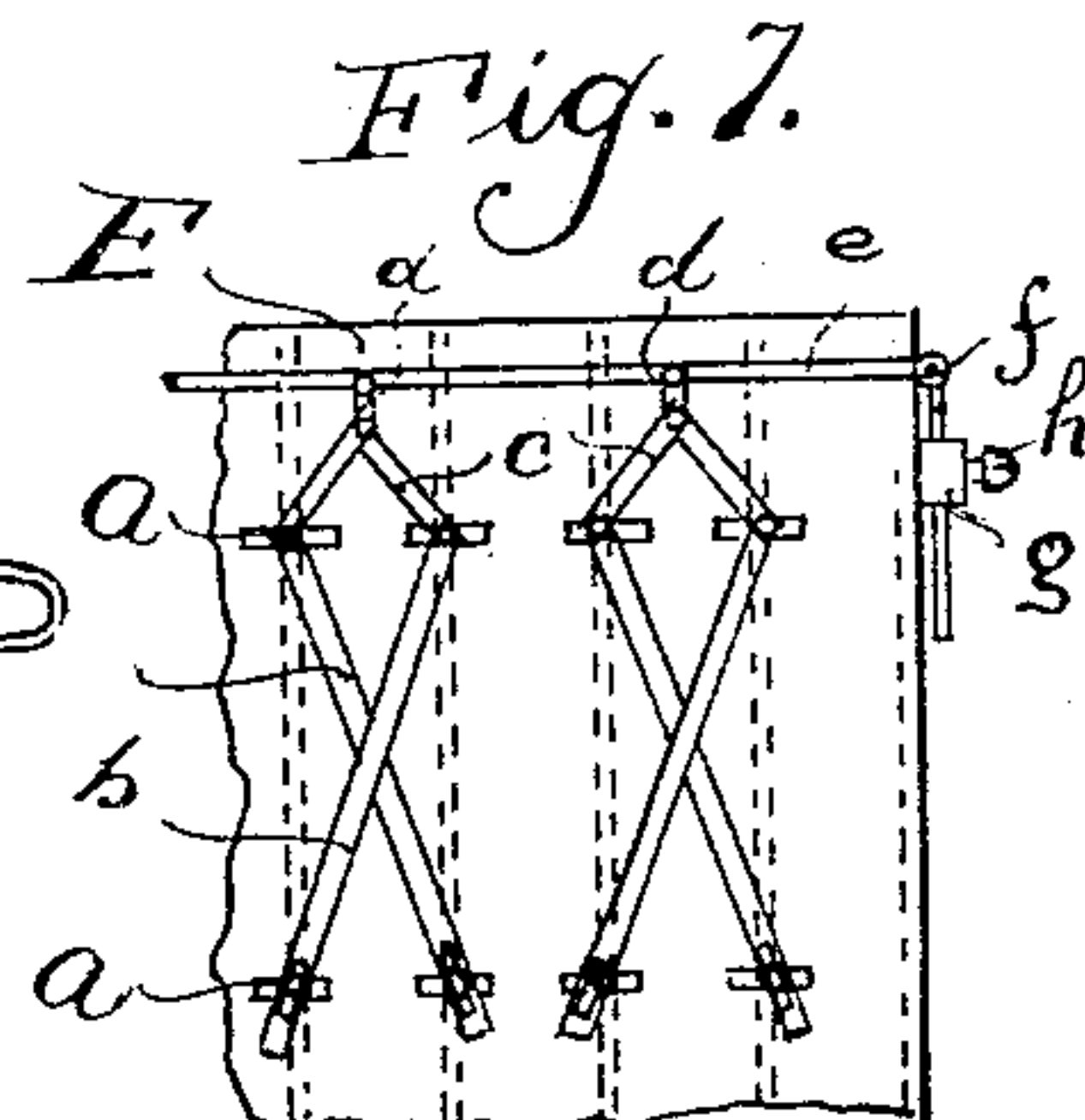
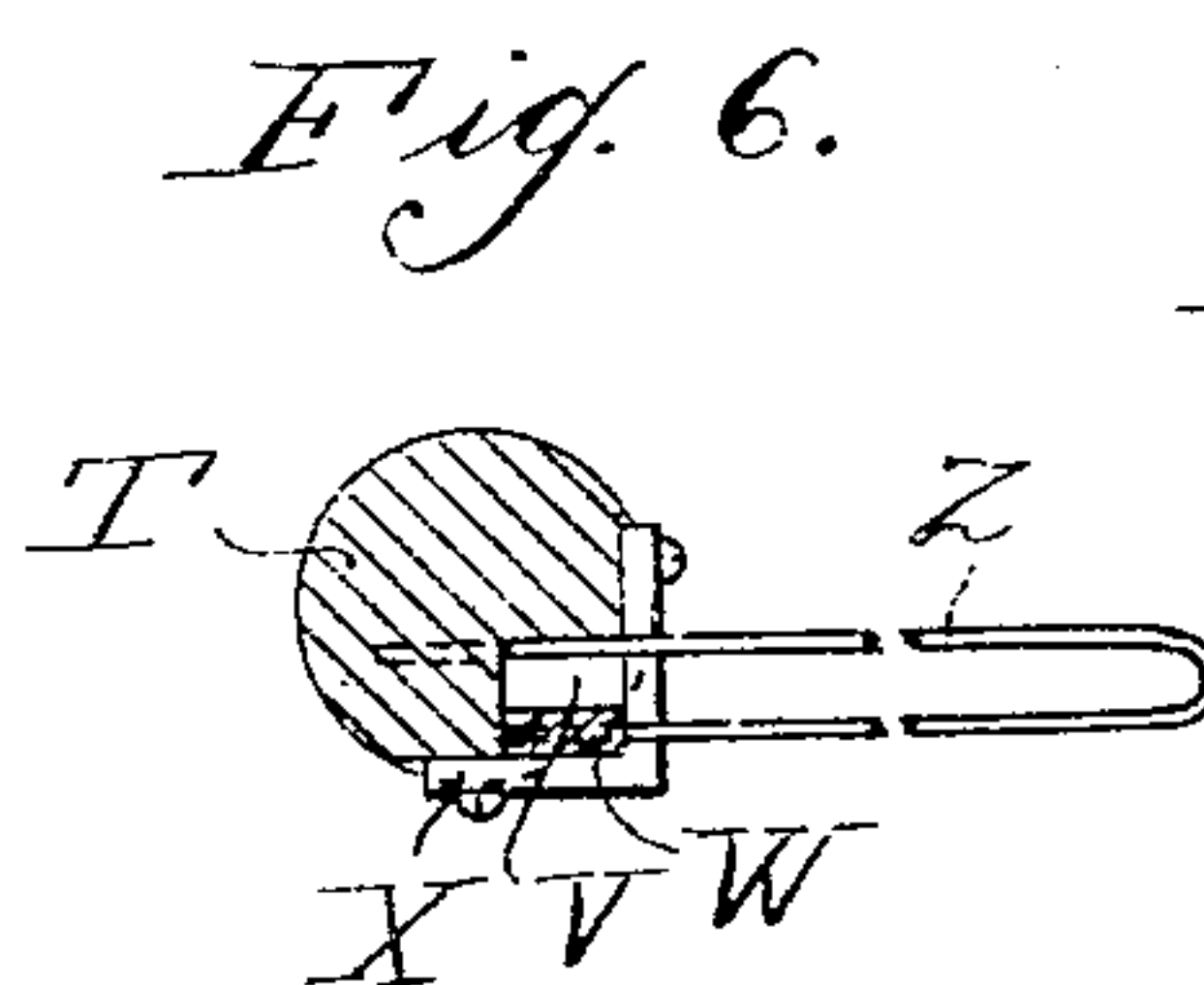
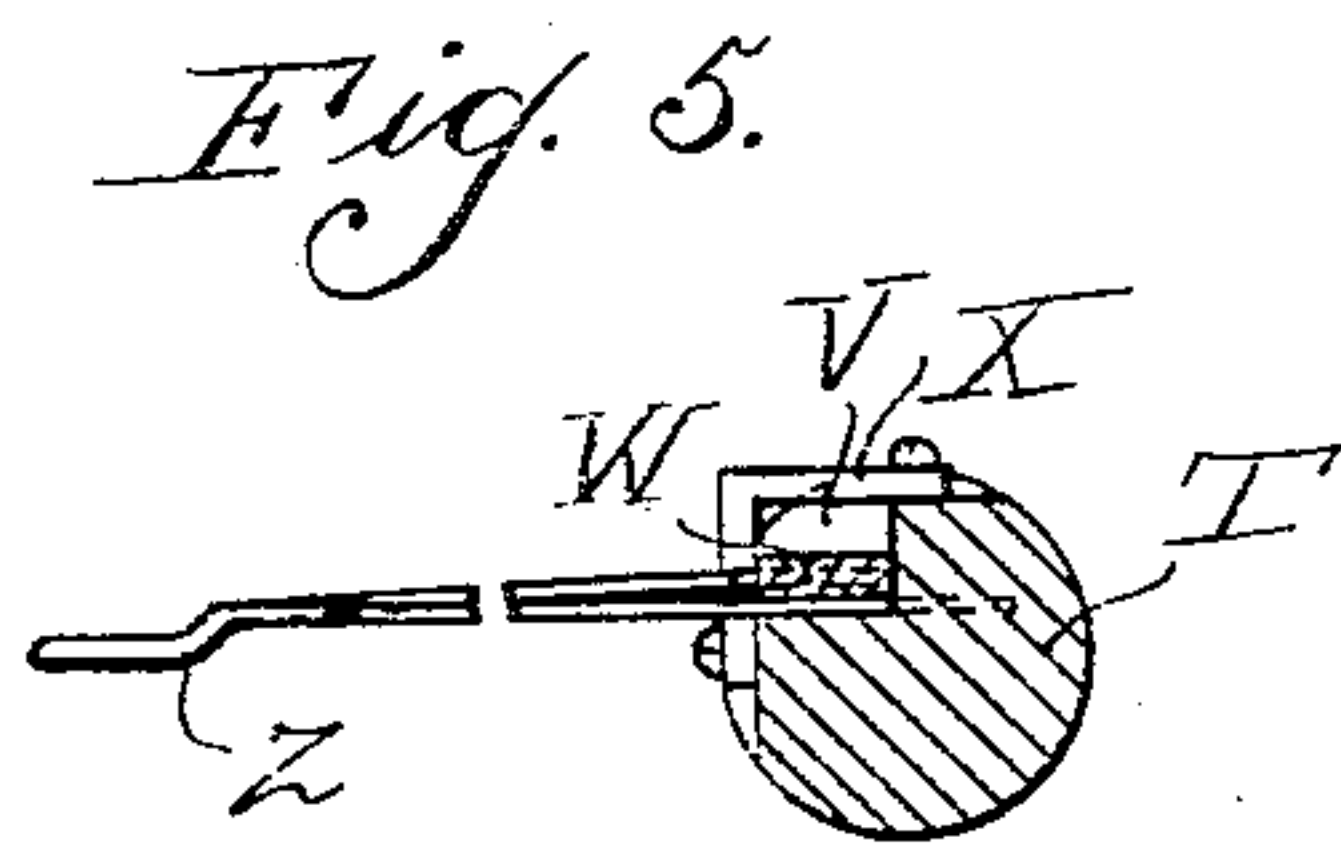
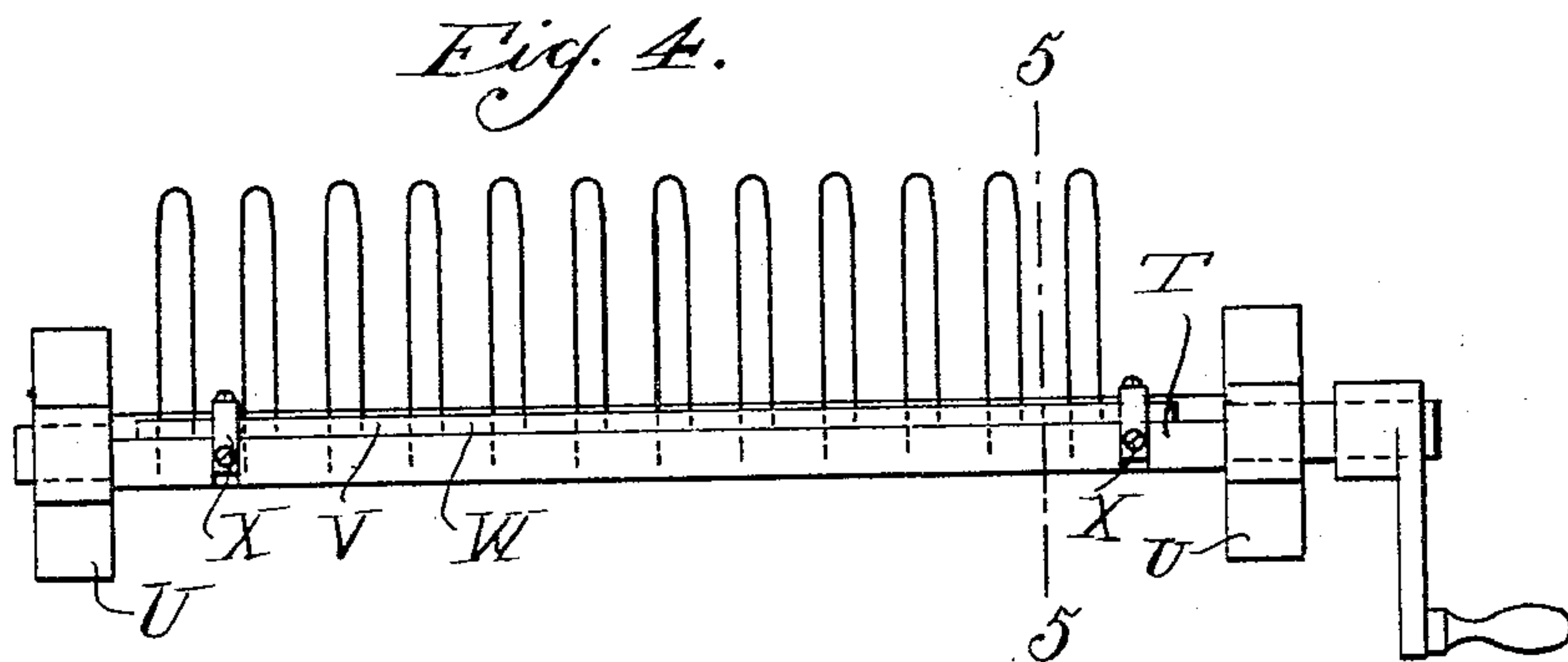
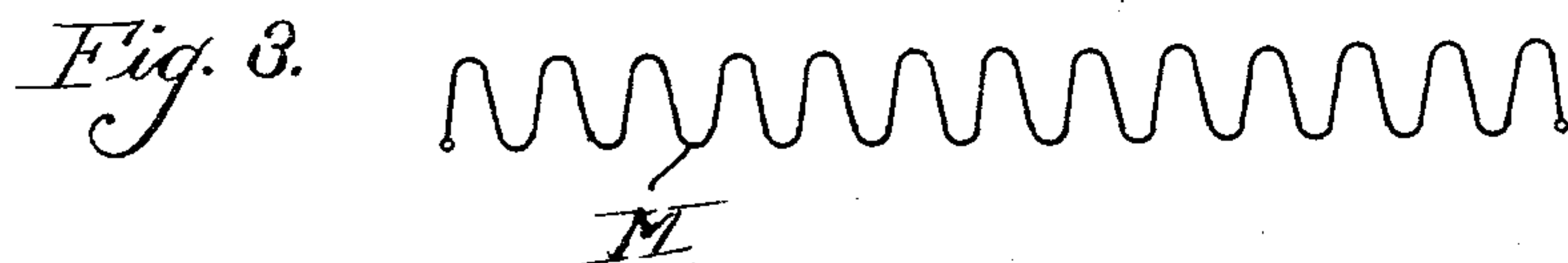
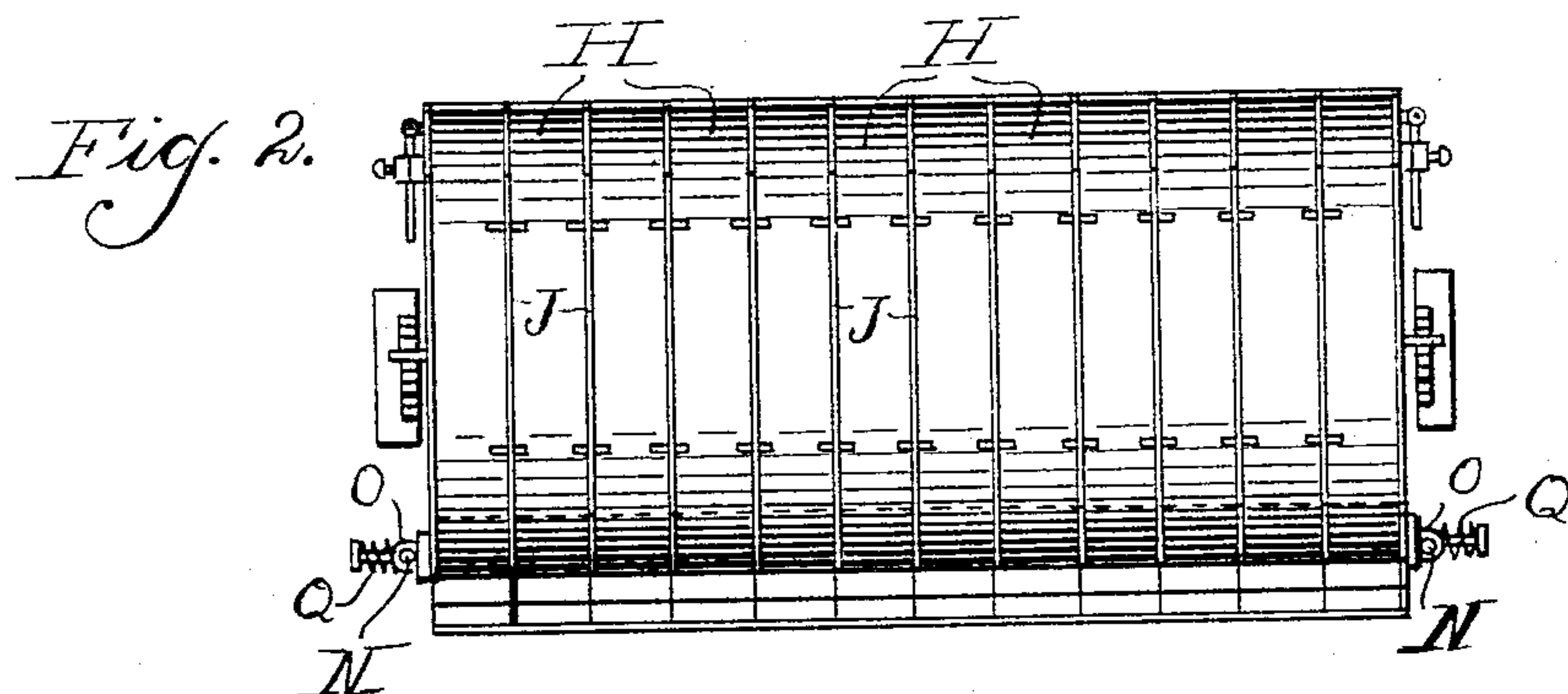
*Attorney,*

F. GOLDSCHMIDT.  
CANDY DIPPING MACHINE.

(Application filed Oct. 18, 1901.)

(No Model.)

2 Sheets—Sheet 2.



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# UNITED STATES PATENT OFFICE.

FERDINAND GOLDSCHMIDT, OF CHICAGO, ILLINOIS.

## CANDY-DIPPING MACHINE.

SPECIFICATION forming part of Letters Patent No. 704,248, dated July 8, 1902.

Application filed October 18, 1901. Serial No. 79,066. (No model.)

*To all whom it may concern:*

Be it known that I, FERDINAND GOLDSCHMIDT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Candy-Dipping Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a novel construction in a candy-dipping machine for coating so-called "creams," the object being to provide a machine of this character which can be operated with great rapidity; and it consists in the features of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings, illustrating my invention, Figure 1 is a vertical longitudinal section of a machine constructed in accordance with my invention. Fig. 2 is a top plan view of the candy-receiver. Fig. 3 is a detail view of the device for depressing the pieces of candy to be coated into the cream. Fig. 4 is a plan view of the device for removing the candy from the cream. Figs. 5 and 6 are detail sections on the line 5 5 of Fig. 4, showing the forks on the shaft in two positions. Fig. 7 is a fragmentary bottom plan view of the candy-receiver.

Referring now to said drawings, A indicates a table provided with an opening B, below which a steam-jacketed receptacle C for cream is mounted, the bottom of said receptacle C being approximately a quarter-cylinder. Adjacent one end of said table is a standard D, the upper end of which is enlarged and provided with a horizontal row of recesses E, adapted to receive the shaft or pivots of a candy-receiver F. The said candy-receiver F comprises a receptacle having a bottom G, describing an ogee curve and divided longitudinally into a number of chutes or troughs H, adapted to receive the candy. The partitions J, bordering said troughs, are movable toward and away from each other to adjust the width of each of said troughs, alternate ones of which receive the candy. When in position to receive candy, as shown in dotted lines, Fig. 1, said receiver F par-

tially enters a recess K in said table, and when the candy has been properly placed therein it is inverted to the position shown in full lines in Fig. 1, thereby causing each piece of candy to drop into the receptacle C at a predetermined point. To further insure this, a guard or deflecting plate L is secured to the delivery end of said receiver F. As the cream is very thick and its gravity equal to or greater than the candy to be dipped, the latter must be forcibly immersed, and to this end I provide a device on said receptacle F to accomplish this. Said device consists of a zigzag wire M, secured to the lower ends of two rods N, longitudinally movable in sleeves O, pivotally mounted on lugs P in the side walls of said receiver F. Said sleeves O are normally held in the position shown in full lines, Fig. 1, by means of springs Q, engaging the same in any suitable manner to accomplish the purpose. The rods N are normally held at the upper limits of their motion by means of springs R, interposed between said sleeves O and collars S on said rods. Said wire M is thus normally held out of the path of the dropping candy, and when the latter has been dropped said rods N are turned to bring said wire M over the row of candy and then depressed to immerse the candy. Said rods are then released and the receptacle F returned to the position shown in dotted lines. Extending across said table, above the other end of said receptacle C, is a crank-shaft T, journaled in bearings U on said table. Said shaft is provided with a longitudinal groove or recess V, in which a rod W is movably mounted, being held in place and guided by means of guides X. The said shaft is provided with a series of openings in the bottom of said groove or recess V and in alinement with one wall of said groove, and the said rod W is provided with similar openings parallel with the openings in said shaft, said openings being adapted to receive the ends of wire loops Z, which are adapted to remove the candy from the cream and deliver same upon paper or other suitable receptacle. The said rod W is operated by its own gravity to turn said wire loops in the manner indicated in Figs. 5 and 6, thereby readily catching and releasing the dipped candy. The rod W being quite heavy will when said shaft T is turned



to the position shown in Fig. 6 obviously drop to the lower limit of its movement and carry one end of each loop Z with it, thereby turning all of said loops. The latter will cause  
 5 said rod to swing longitudinally as it changes position in an arc less than ninety degrees, having a radius equal to the distance between the ends of each loop. When said shaft is returned to the position shown in Fig. 5, said  
 10 rod will again drop in a similar manner and return the loops to the position shown in Fig. 4. Owing to the shape of the bottom of said receptacle C, it is necessary to advance the receiver F from time to time as the level of  
 15 the cream is lowered, for the reason that the cream will recede from the innermost end of said receptacle C and the candy thus strike the curved wall and roll down the latter to the cream. Hence such candy will be car-  
 20 ried out of the path of the depressor, and in order to avoid this the receiver F must be advanced to bring the depressor in proper position to effect complete immersion of the candy. The partitions dividing said receiver F may be  
 25 adjusted in any desired manner; but I have shown devices which are preferable, for the reason that they serve to adjust all the chutes equally and simultaneously. Each of said partitions J is provided on its lower edge with  
 30 two pins *a*, passing through lateral slots in the bottom of said receiver F. The pins on each pair of adjacent partitions are connected together by means of lazy-tongs levers *b*, and these in turn are connected by means of links  
 35 *c* and *d* with a rod *e*, extending transversely across the bottom of said receiver F. By moving said rod the partitions will be adjusted in an obvious manner and held in any de-  
 40 sired position by securing said rod, the latter being provided with arms *f*, passing through sleeves *g* on the side walls of said receiver F and being engaged by a set-screw *h*, mounted therein.

I claim as my invention—

45 1. In a machine of the kind specified, the

combination with a receptacle adapted to receive the coating, and devices movable in said receptacle for removing the dipped candy, of a receiver movable over said receptacle and provided with chutes to receive the candy to be  
 50 dipped and deliver same to said receptacle at predetermined points, and devices carried by said receiver for forcibly immersing the candy.

2. In a machine of the kind specified, the combination with a receptacle, a receiver mov-  
 55 able over same and provided with a series of chutes each adapted to receive a piece of candy to be dipped and deliver same into said receptacle at predetermined points, and de-  
 60 vices carried by said receiver for forcibly im- mersing said candy in the coating contained in said receptacle, of a crank-shaft above said receptacle carrying forks adapted to move into and out of said receptacle to remove the  
 65 dipped candy, said forks corresponding in number and position with said chutes.

3. In a machine of the kind specified, the combination with a receptacle adapted to contain coating, a receiver provided with chutes at regular intervals pivotally mounted adja-  
 70 cent to said receptacle and projecting over same at one end, said chutes being adapted each to receive a piece of candy to be dipped, and deliver same to said receptacle at prede-  
 75 termined points, and devices for forcibly im- mersing said candy, of a shaft mounted adjacent said receptacle, guides on said shaft, a member movable in said guides, and forks each secured at one end to said shaft and at its other to the member movable in said guides,  
 80 said forks being adapted to be turned by the movements of said member as said shaft is turned, said forks corresponding in number and location with said chutes.

In testimony whereof I affix my signature 85 in presence of two witnesses.

FERDINAND GOLDSCHMIDT.

Witnesses:

RUDOLPH WM. LOTZ,  
 JOHN SNOWHOOK.