

(No Model.)

2 Sheets—Sheet 1.

P. OLSSON.  
GRAINING DEVICE.

No. 582,083.

Patented May 4, 1897.

Fig. 1.

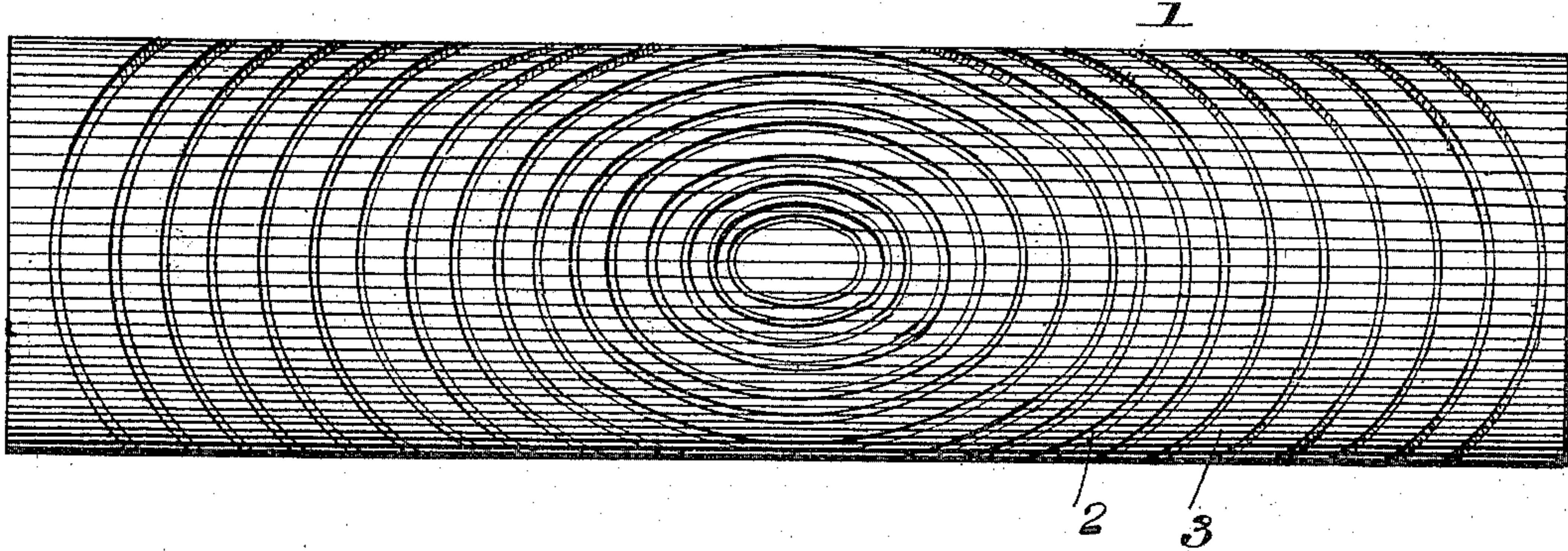


Fig. 2.

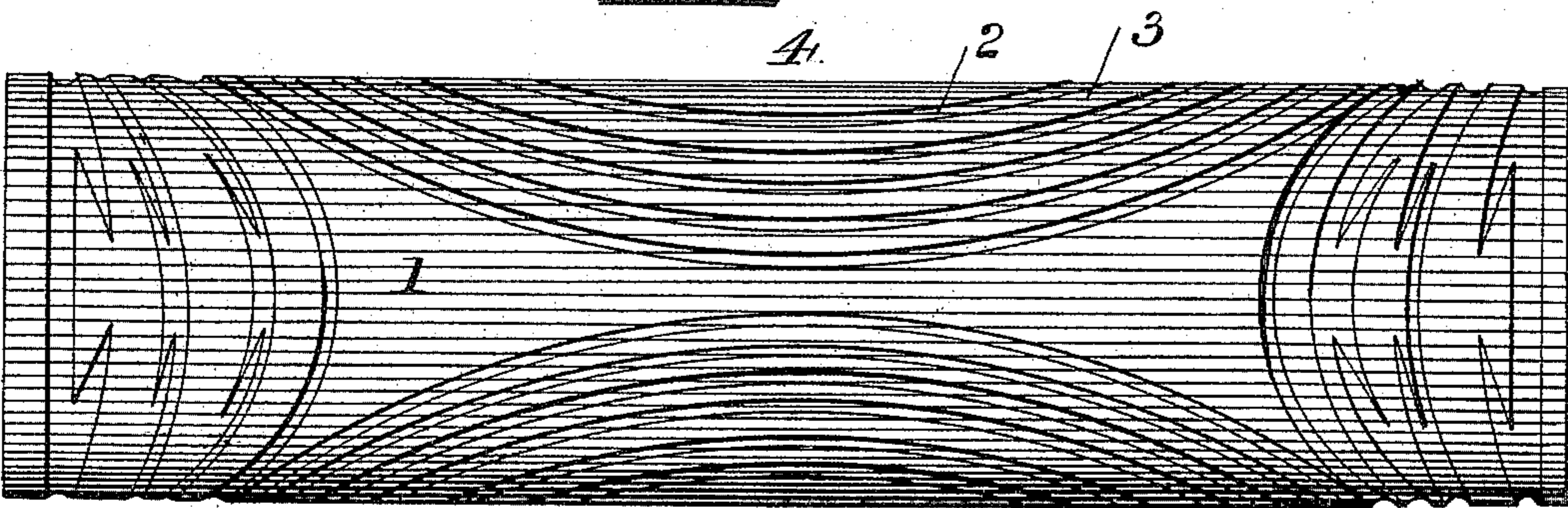
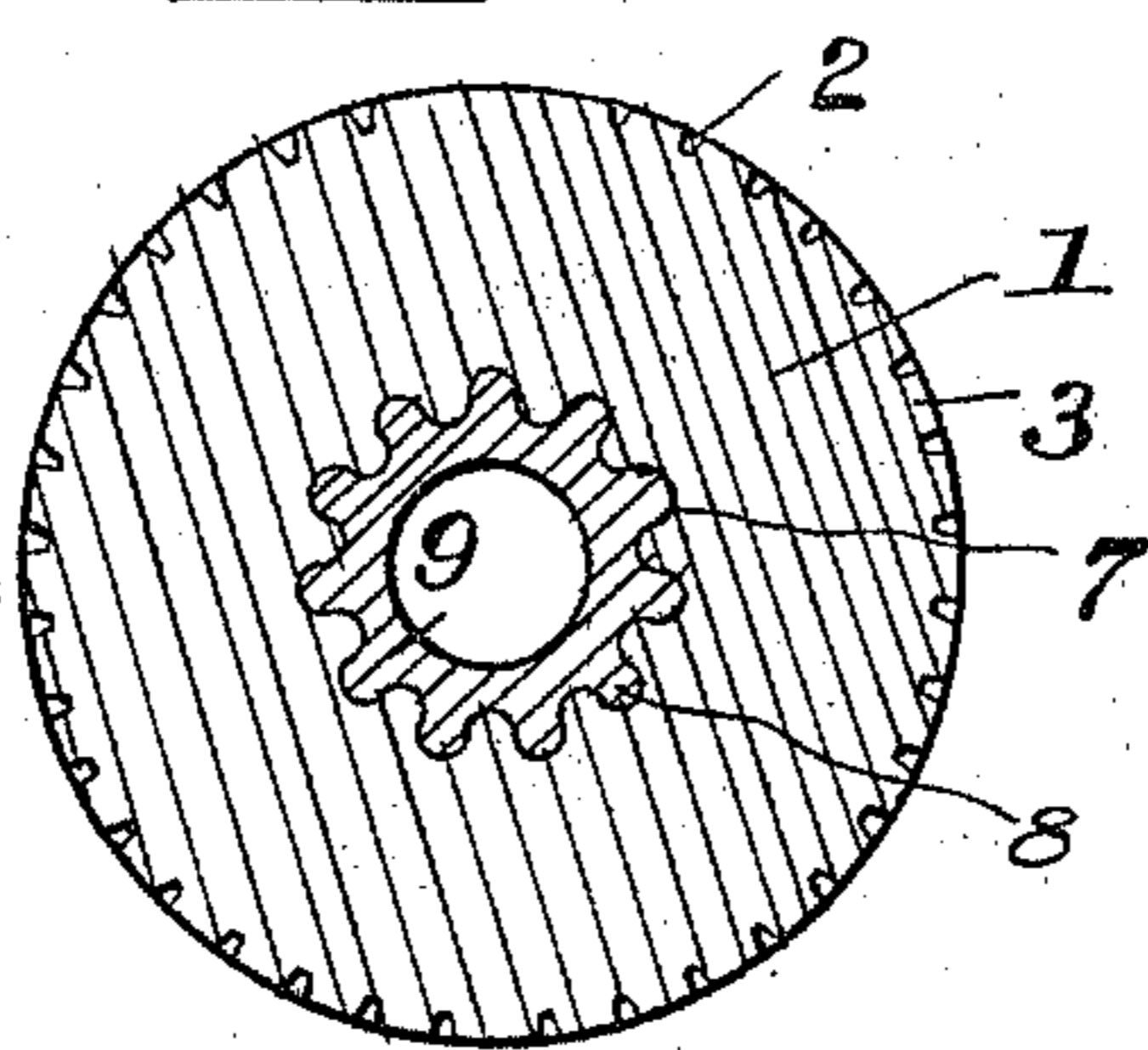


Fig. 3.



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(No Model.)

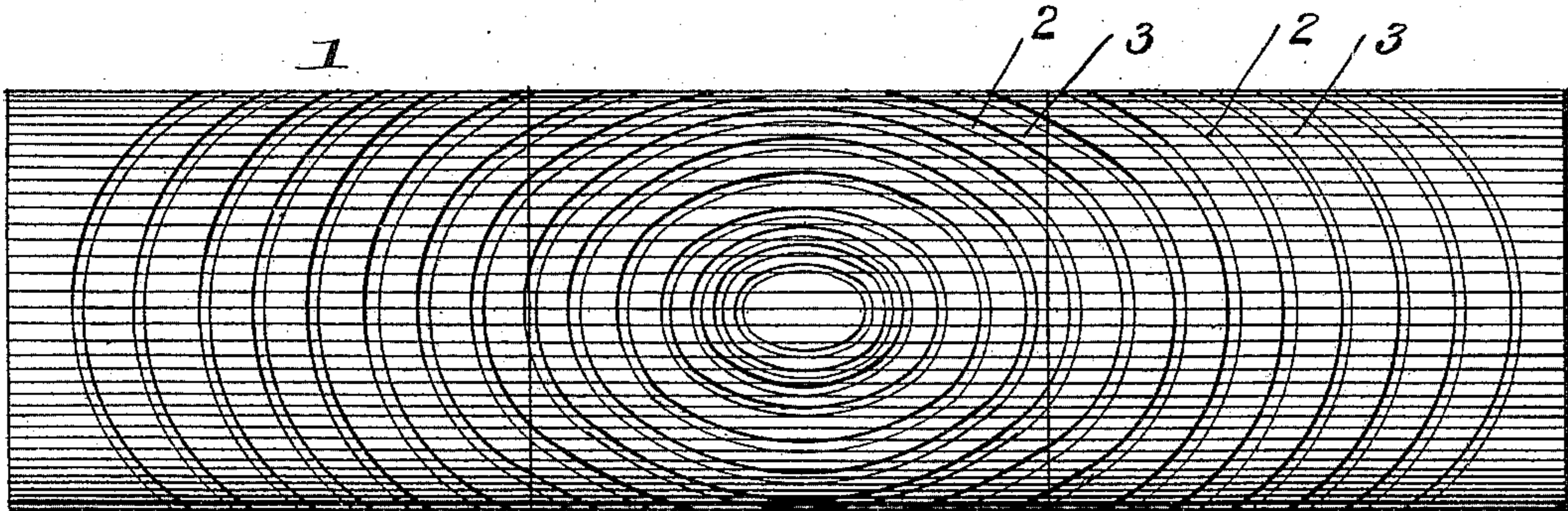
2 Sheets—Sheet 2.

P. OLSSON.  
GRAINING DEVICE.

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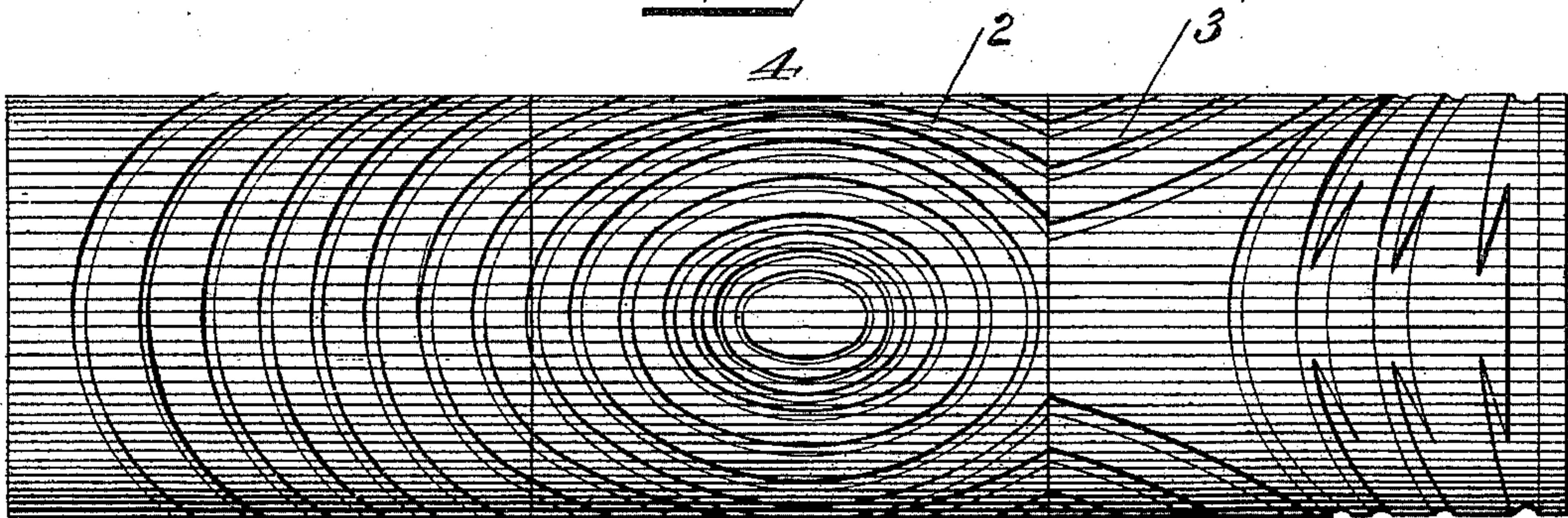
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Fig. 4.



4

Fig. 5.



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# UNITED STATES PATENT OFFICE.

PAUL OLSSON, OF DURHAM, NORTH CAROLINA, ASSIGNOR OF ONE-HALF TO  
WILLIAM T. O'BRIEN, OF SAME PLACE.

## GRAINING DEVICE.

SPECIFICATION forming part of Letters Patent No. 582,083, dated May 4, 1897.

Application filed September 15, 1896. Serial No. 605,936. (No model.)

*To all whom it may concern:*

Be it known that I, PAUL OLSSON, a citizen of the United States, and a resident of Durham, in the county of Durham and State of North Carolina, have invented certain new and useful Improvements in Graining Devices; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved graining device for imitating the grain of various woods.

In graining as ordinarily practiced it is the custom to coat the surface to be grained with a suitable liquid and then by means of a cloth imitate the grain of certain woods. This is a very tedious and laborious operation, requiring the aid of a skilled workman.

The object of my invention is to provide an improved graining instrument whereby the operation of graining may be performed in a rapid and efficient manner by an unskilled person, thus materially reducing the cost.

The invention consists, essentially, of a roll composed of a flexible elastic material, such as india-rubber, having a central aperture extending from end to end and formed on its periphery with a number of concentric grooves and ribs gradually increasing in size from the center and a number of grooves and ribs at the end of the roll, as hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a graining-roll constructed in accordance with my invention. Fig. 2 is a similar view, looking from the opposite side. Fig. 3 is a cross-section of a modified construction. Figs. 4 and 5 are elevations of the same.

In the said drawings, the reference-numeral 1 designates a roll of elastic flexible material, such as india-rubber, having a central aperture extending through the same from end to end. The periphery of this roll is formed with a number of concentric grooves 2 and ribs 3, which increase in size from the center till the outermost grooves meet at the opposite side

of the roll from the center of such ribs and grooves, leaving tapering spaces 4. At each end of the roll there are formed curved grooves and ribs 5 and 6, which extend inwardly toward the center of the roll.

In using the device the surface to be grained is first painted the required color, and when dry the liquid graining material is applied thereto. The roll is then drawn over the said graining material and is given a rotary movement at the same time, when the graining material will be caused to assume the appearance of natural wood.

It will be observed that the graining material is not applied to the roll and then imprinted on the surface to be grained, as usual, but the wood imitations are produced by drawing the roller over the prepared surface.

While the device above described will be found very efficient in use for the purpose of producing varying designs or patterns, I construct the device as shown in Figs. 3, 4, and 5. In this case the pattern-roller is made of three or more sections, which are independently rotatable upon a mandrel, and by rotating one or more of the same, so as to bring different grooves and ribs into coincidence, a large number of different designs may be produced. In said figures the reference-numeral 1 designates the roller, formed in three sections, each provided with grooves and ribs, as before described. These sections are provided with central openings formed with longitudinal corrugations 7, which engage with corresponding corrugations 8 of a mandrel 9. By means of these corrugations the sections will be held securely on the mandrel and prevented from accidentally turning thereon, but can be readily rotated when it is desired to change the design. By this construction the character of the graining may be readily changed, so as to accommodate the tool or implement to varying characters of graining, which the single roller is not capable of doing.

Having thus fully described my invention, what I claim is—

1. In a graining-tool, the combination with the mandrel, of the grooved roller-sections mounted thereon, and independently rotatable on said mandrel, substantially as and for the purpose specified.

2. In a graining-tool, the combination with  
the grooved roller comprising a number of  
apertured sections formed with interior cor-  
rugations, of the mandrel formed with corre-  
5 sponding corrugations engaging therewith,  
substantially as and for the purpose specified.  
In testimony that I claim the foregoing as

my own I have hereunto affixed my signature  
in presence of two witnesses.

PAUL OLSSON.

Witnesses:

CHAS. MCGARY,  
E. G. THOMSON.