

E. NEMETHY.

APPARATUS FOR WASHING VEGETABLE FIBERS FOR SPINNING.

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934,564.

Patented Sept. 21, 1909

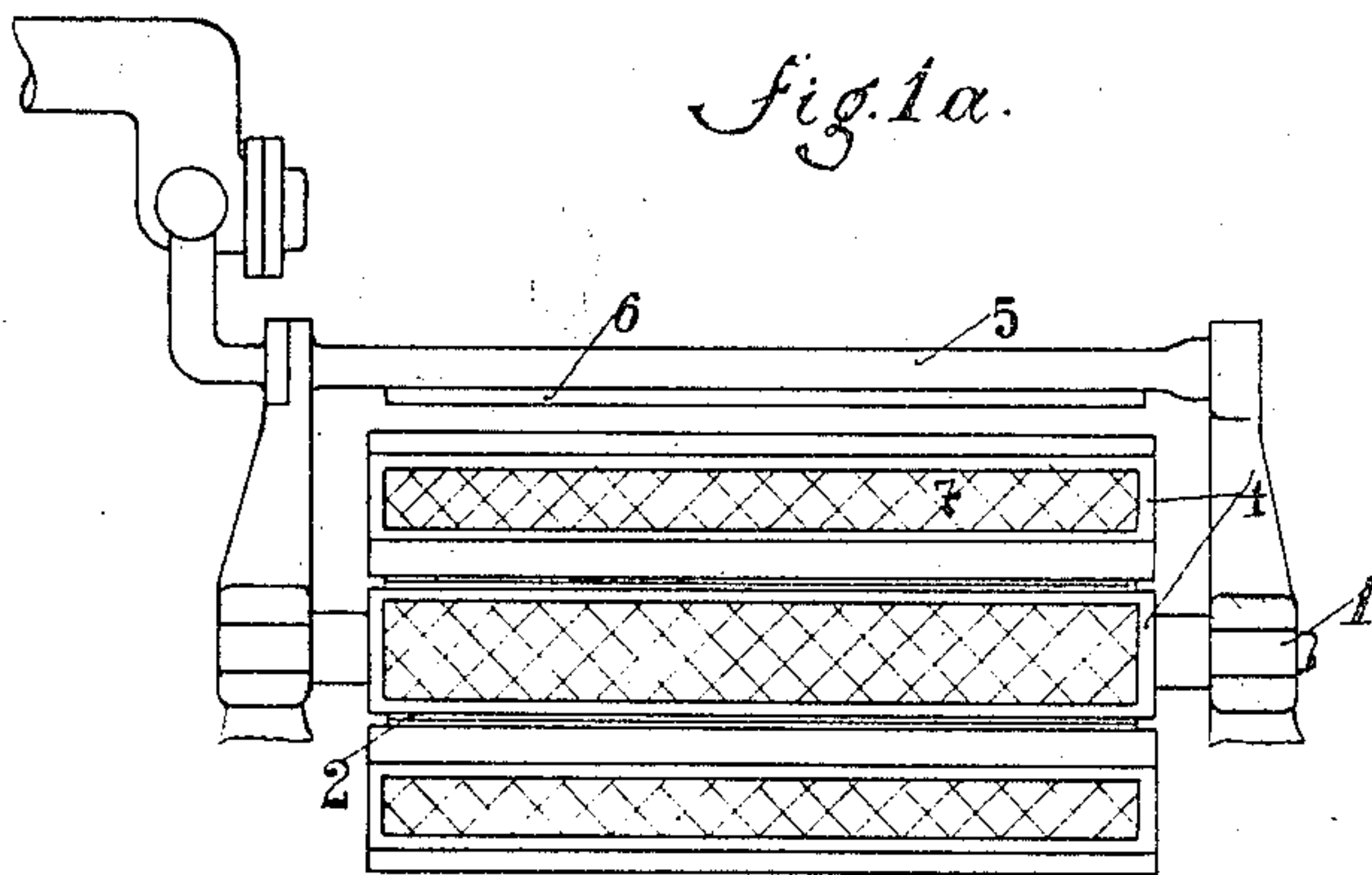
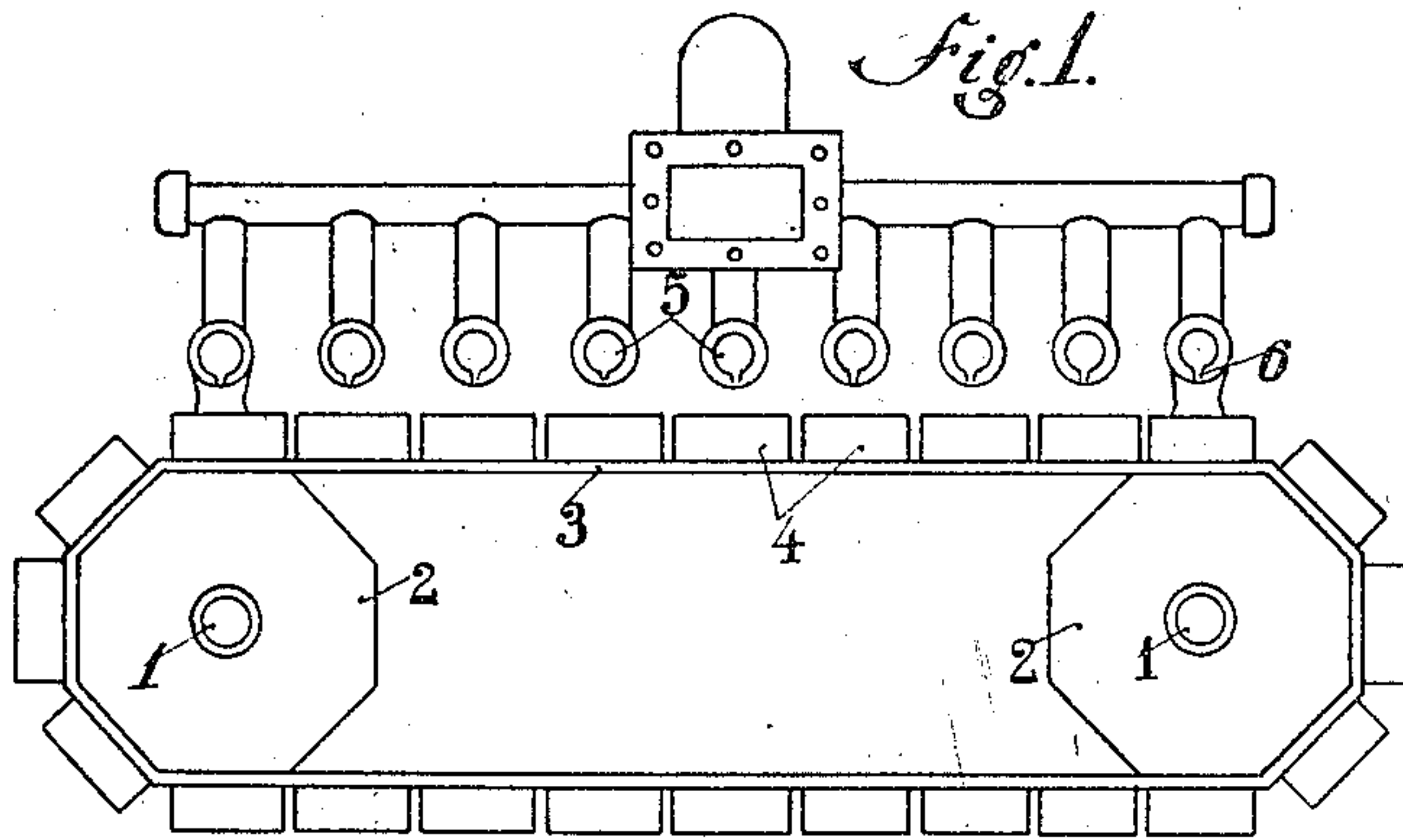


Fig. 2.

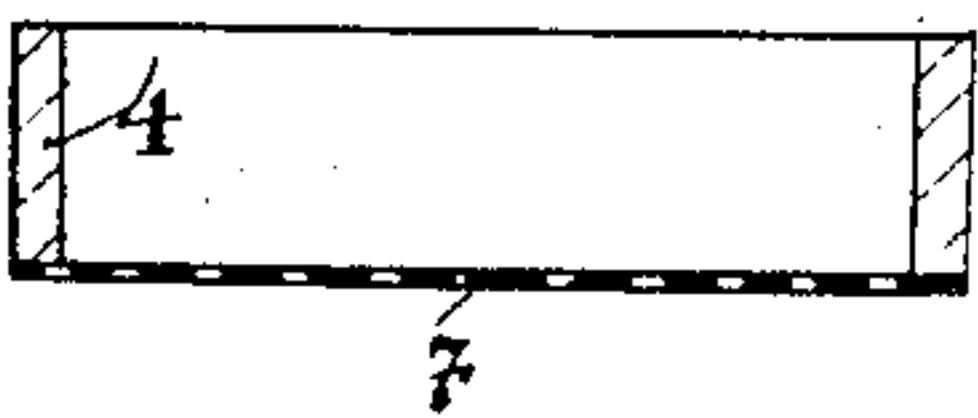
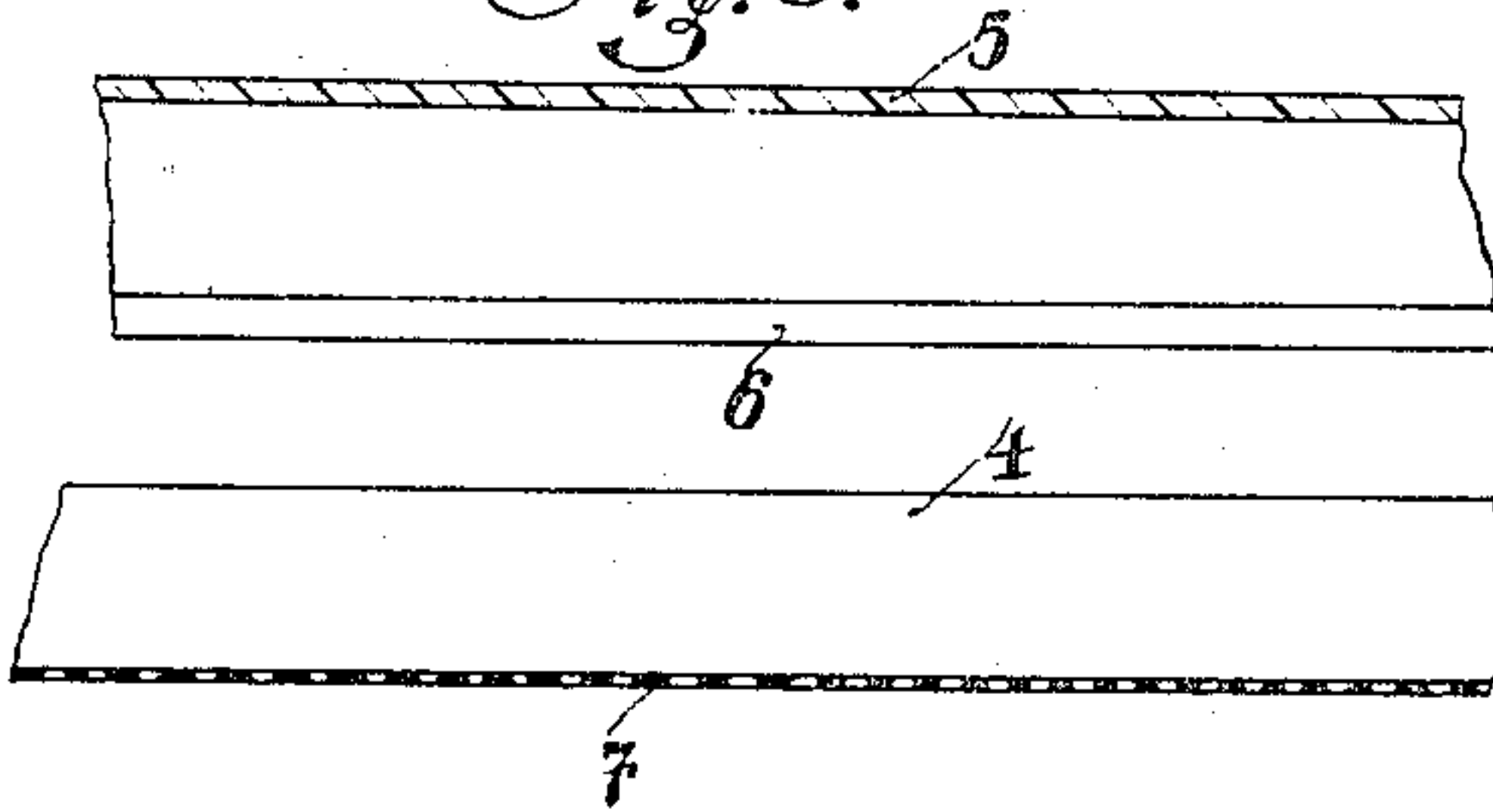


Fig. 3.



Witnesses.

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APPARATUS FOR WASHING VEGETABLE FIBERS FOR SPINNING.

934,564.

Specification of Letters Patent. Patented Sept. 21, 1909.

Application filed March 28, 1907. Serial No. 365,034.

To all whom it may concern:

Be it known that I, EMIL NÉMETHY, a subject of the King of Hungary, and resident of Árad, a small town in Austria-Hungary, have invented certain new and useful Improvements in Apparatus for Washing Vegetable Fibers for Spinning, of which the following is a specification.

For washing animal fibers for spinning such as wool and the like, apparatus are employed in which the fibers are led in tubs or buckets beneath roses. These apparatus can however not be employed for washing vegetable fibers for spinning, as the fibers in the tubs or buckets would get too much entangled by the roses so that a spinning of the same would be impossible. Now, in order that the vegetable fibers when being washed do not get entangled but remain perfectly straight and parallel, and further in order to reduce the fiber bundles while maintaining their parallel position to single fibers, the present invention provides, instead of the tubs or buckets, long boxes and, instead of the roses, parallel shower-pipes to these boxes which are however not as usual fitted with holes but at their underside with a longitudinal slot so that the fibers are not met by many jets but by a single jet—similar to the cutting edge of a knife—parallel to the direction of the fibers whereby a good disentanglement of large fiber bundles as well as a thorough washing of the fibers at a permanent parallel position of the latter is effected.

The improved apparatus is shown in the accompanying drawing.

Figures 1 and 1^a are respectively a side and end elevation of the same, one of the pipes connected with a source of steam supply, while Figs. 2 and 3 show details, of the same.

Over two rollers 2 which are movably mounted on parallel axles 1, the endless band 3 is led and fitted with a series of long open fixed sieve-boxes 4 with sieve-like bottoms 7, into which the fiber bundles are embedded. Above the single sieve-boxes 4 of the upper row, shower-pipes 5 which at their underside are provided with a longitudinal slot 6, are arranged so as to lie parallel to the axles 1 and also to the length of the fiber bundles which are for this purpose placed in this position into the sieve-boxes 4. By the effect of the sharp water jets supplied through the pipes 5, the fiber bundles are thoroughly washed and reduced to single fibers. The bundles are then conveyed to wet-presses and from there into the drying chamber, upon which the fibers are sufficiently pliant in order to be worked up.

Having fully described my invention, what I claim and desire to secure by Letters Patent is:—

An apparatus for washing vegetable fibers for spinning, comprising in combination, two movably mounted rollers (2); an endless band (3) arranged over said two rollers, a series of long open sieve-boxes (4) fixed on said endless band and designed to receive the raw fiber material, a series of shower-pipes (5) provided at their underside with a longitudinal slot (6) in such a way as to face with the latter the upper row of the fiber bundles in said sieve-boxes and to lie parallel thereto, for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

EMIL NÉMETHY.

Witnesses:

A. J. FALÓMY,

CHARLES EDWARD ZAHM.