

(No Model.)

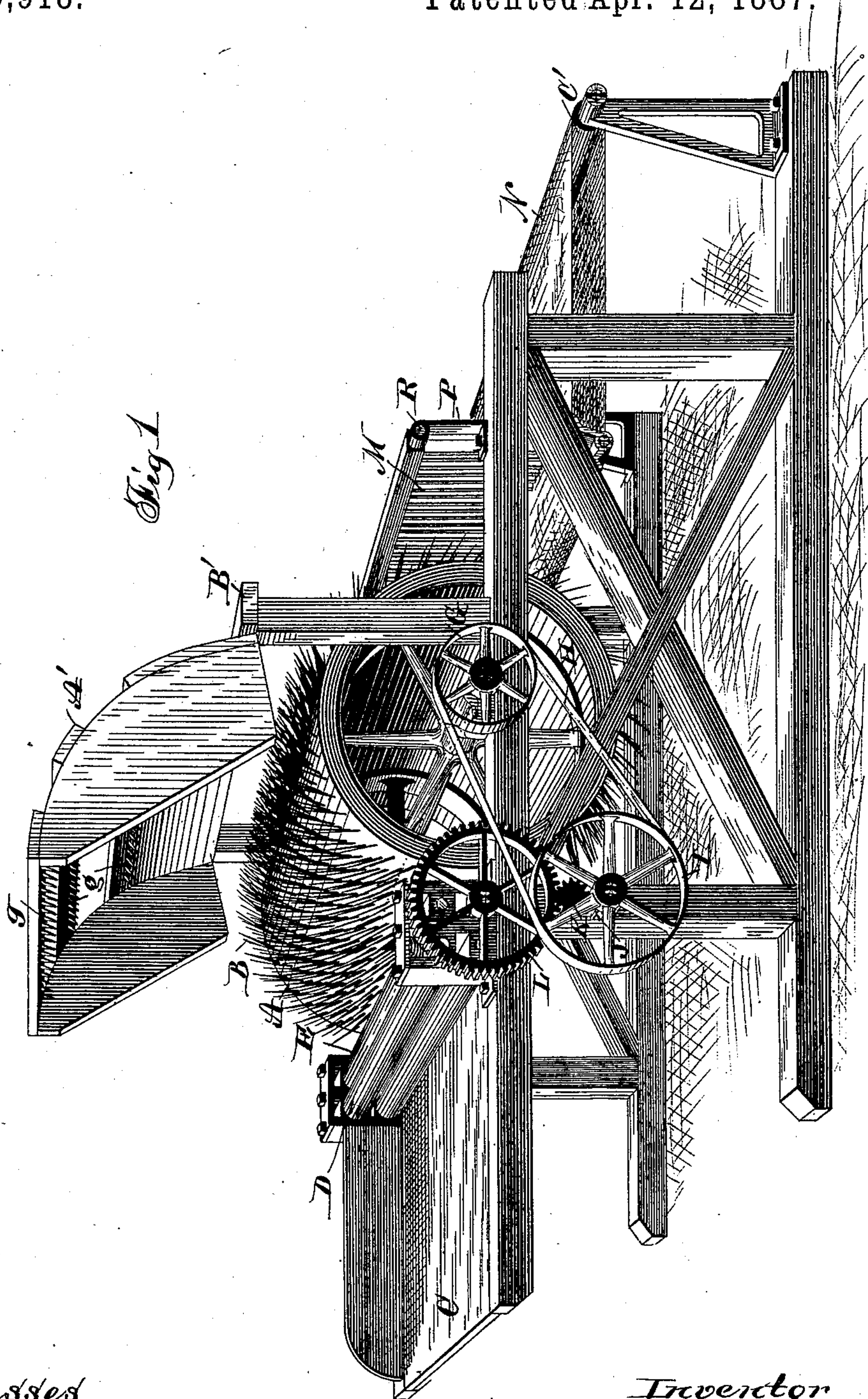
2 Sheets—Sheet 1.

A. L. SCHNEIDT.

MACHINE FOR MATTING HAIR.

No. 360,918.

Patented Apr. 12, 1887.



Witnesses
G. M. Gridley
E. R. Inman

Inventor
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By ~~Ernest~~ Ruedich
Attorneys

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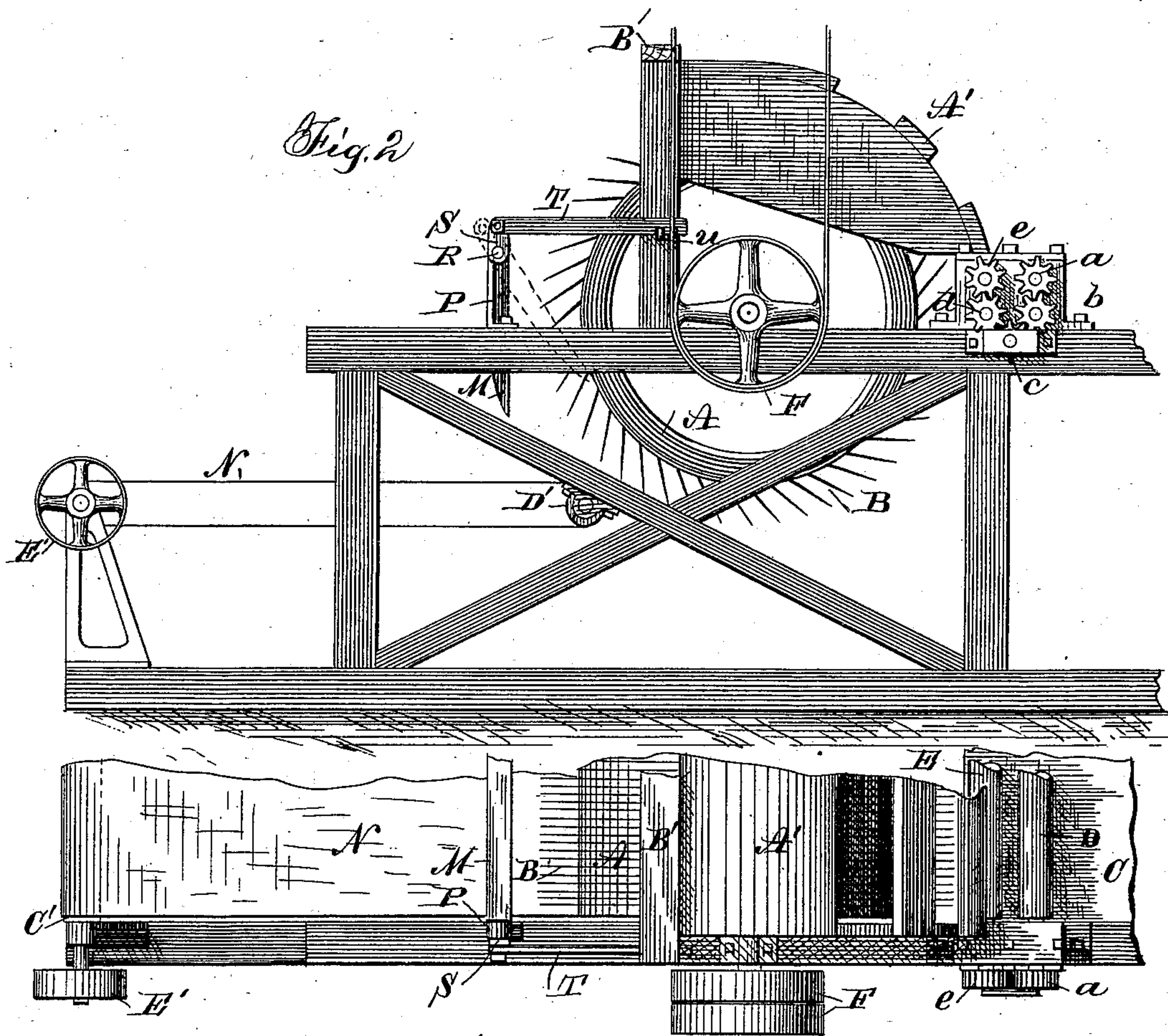


Fig. 3.

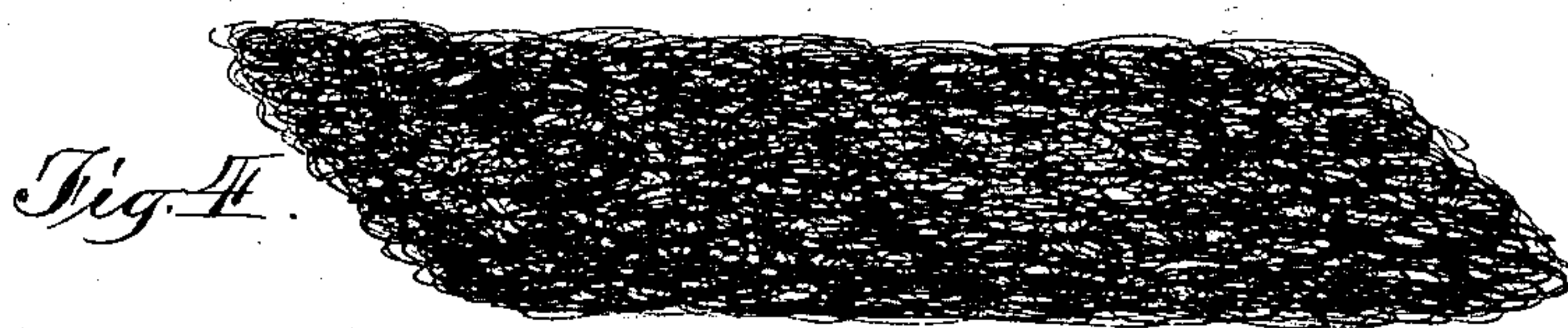


Fig. 4.

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UNITED STATES PATENT OFFICE.

AUGUST L. SCHNEIDT, OF WAUWATOSA, WISCONSIN.

MACHINE FOR MATTING HAIR.

SPECIFICATION forming part of Letters Patent No. 360,918, dated April 12, 1887.

Application filed August 13, 1886. Serial No. 210,846. (No model.)

To all whom it may concern:

Be it known that I, AUGUST L. SCHNEIDT, of Wauwatosa, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Machines for Matting Hair; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in machines for matting loose curled hair into sheets, for convenience in use or shipping.

The construction of my invention is explained by reference to the accompanying drawings, in which—

Figure 1 represents a perspective view thereof. Fig. 2 is a side view. Fig. 3 is a top view of one side of the same. Fig. 4 represents one of the sheets formed from hair by the machine.

Like parts of the machine are referred to by the same reference-letters throughout the several views.

A represents a cylinder, from the periphery of which project numerous sharp-pointed teeth, B, which are arranged at a tangent to the surface of the cylinder, thus forming a cylindrical hackle, by which, as said cylinder is rapidly rotated, the hair is combed out and gradually drawn around the cylinder. The hair thus operated upon is fed from the table C to the cylinder A, preferably by a double set of feed-rolls, D and E; but one set of rolls might be used.

Motion is communicated from a motive power first to the cylinder A through the band-pulley F, which is affixed to one end of the shaft of said cylinder A. Motion is communicated from the opposite end of said cylinder-shaft to one of the feed-rolls through the band-pulley G, band H, band-pulley I, gears J, K, and L, and from said feed-roll to the other three feed-rolls by the chain of gears *a, b, c, d,* and *e*, which gears are so arranged as to cause both sets of feed-rolls to co-operate in feeding forward the stuff between them toward the hackle-cylinder A. Thus it is obvious that the loose or bulk hair as it is being combed and drawn upon said cylinder is retained suf-

ficiently by said feed-rolls to prevent large quantities from being caught at once, the result being to distribute the hair uniformly over the surface of the cylinder. When a sufficient quantity of hair has thus been drawn upon the cylinder to form a mat of the desired thickness, the rotary movement of the cylinder is stopped, and the teeth of the toothed bar or comb M are inclined forward from the vertical position shown in Fig. 2 to that indicated by dotted lines in said figure, so that their pointed ends are caused to bear against the periphery of said cylinder beneath the mat of hair. When the comb is thus secured, the cylinder A is rotated slowly backward one revolution, whereby the entire mat of hair drops therefrom upon the endless belt or apron N. The comb M is suspended from the standards P at its ends by trunnions R. Projecting upward from the frame or back of the comb is a short lever, S, to which the locking-bar T is pivoted. The bar T has notches in its free end, which engage upon a pin, *u*, which projects from the side of the frame of the machine. Thus it is obvious that the teeth of the comb may be retained either in the vertical position, as shown, or at the desired inclination against the cylinder, by changing the position of the bar T upon the retaining-pin *u*.

To facilitate smoothing down the hair upon the cylinder as it is being drawn thereon, I provide several series of downward-projecting teeth, *g g g*, which are affixed to the inside of the cover A'. The cover A' is hinged at one edge to the frame B', and when the machine is in use it rests of its own gravity in the position shown in Fig. 2, but may be readily thrown back on its hinges when desired, as shown in Fig. 1. The endless belt N is supported at its respective ends upon cylinders C' and D', to one of which a hand or band wheel, E', is attached, by which motion may be communicated to said shaft, and from thence to the endless belt N, as the mat is being removed from the cylinder.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a machine for matting or sheeting hair, the combination of a rotating cylinder provided with pins or hackling-teeth rigidly affixed to its surface, and with means for rotat-

ing it, two or more cylindrical rolls for feed-
ing and holding the hair in contact with the
hackling-teeth, and a movable comb or toothed
bar for disengaging the matting from the cylin-
5 der, substantially as and for the purpose speci-
fied.

2. The combination of a cylinder, A, hack-
ling-teeth B, affixed to the periphery of said
cylinder, cover A', provided with one or more
10 series of teeth, *g*, two or more sets of feed-rolls,
D E, means for communicating motion from
the drive-shaft of said cylinder to said feed-
rolls, and a movable comb, M, pivoted at its
respective ends to a frame and provided with
15 means for moving and adjusting the lower end
of its teeth from and against said cylinder, as
set forth.

3. The combination of cylinder A, hack-
ling-teeth B, affixed to the surface of said cylin-

der, cover A', provided with a series of teeth, 20
g, two sets of feed-rolls, D and E, chain of
gears *a*, *b*, *c*, *d*, and *e*, and means for communi-
cating motion from the drive-shaft to said
chain of gears, comb M, provided with means
for changing and holding it at the desired in- 25
clinations toward and from said cylinder, and
endless belt N, supported at its respective ends
upon rotating cylinders and provided with
means for rotating one of said supporting-cyl-
inders and revolving said endless belts, all sub- 30
stantially as and for the purpose set forth.

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

AUGUST L. SCHNEIDT.

Witnesses:

JAS. B. ERWIN,
C. T. BENEDICT.