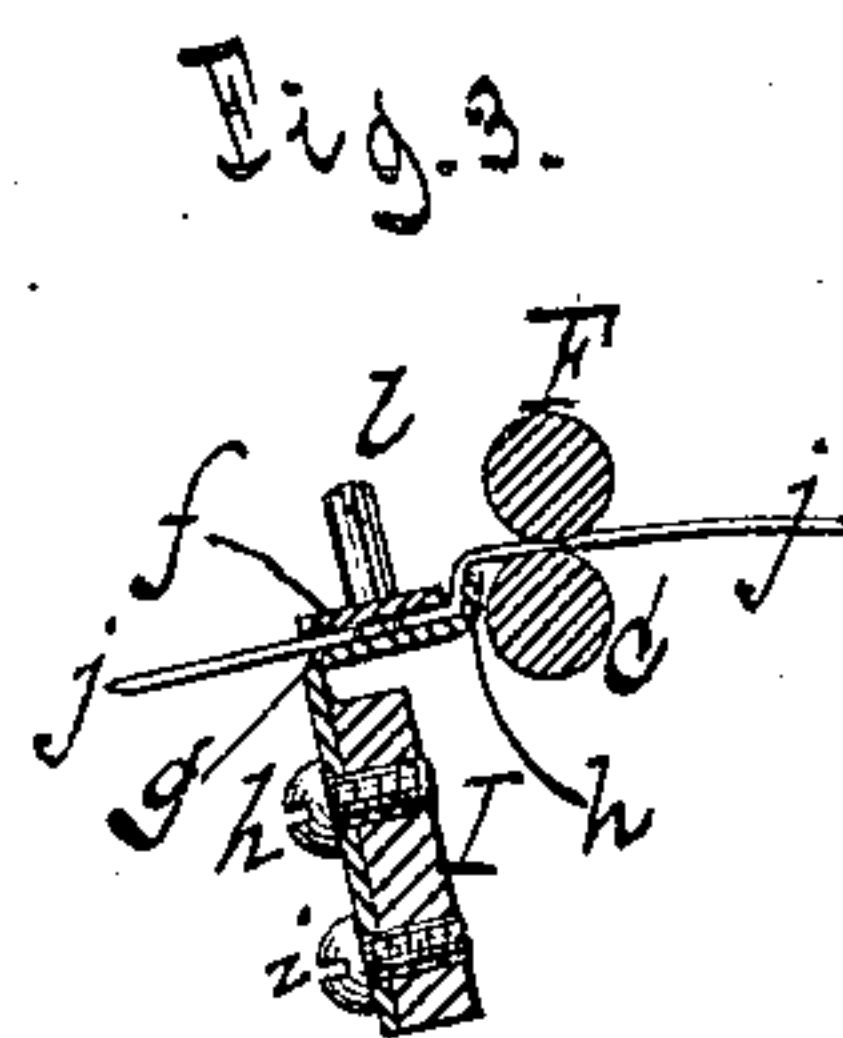
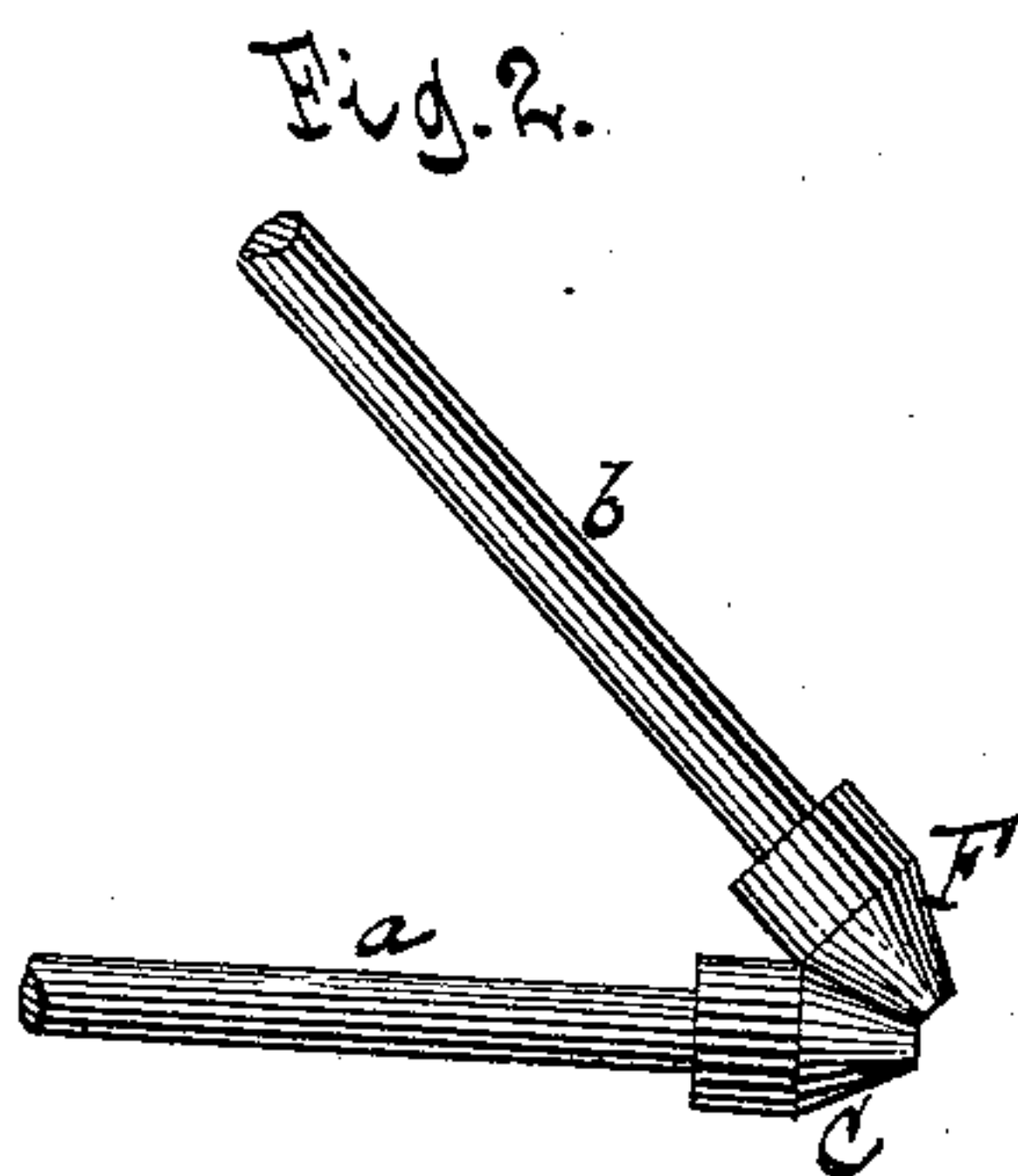
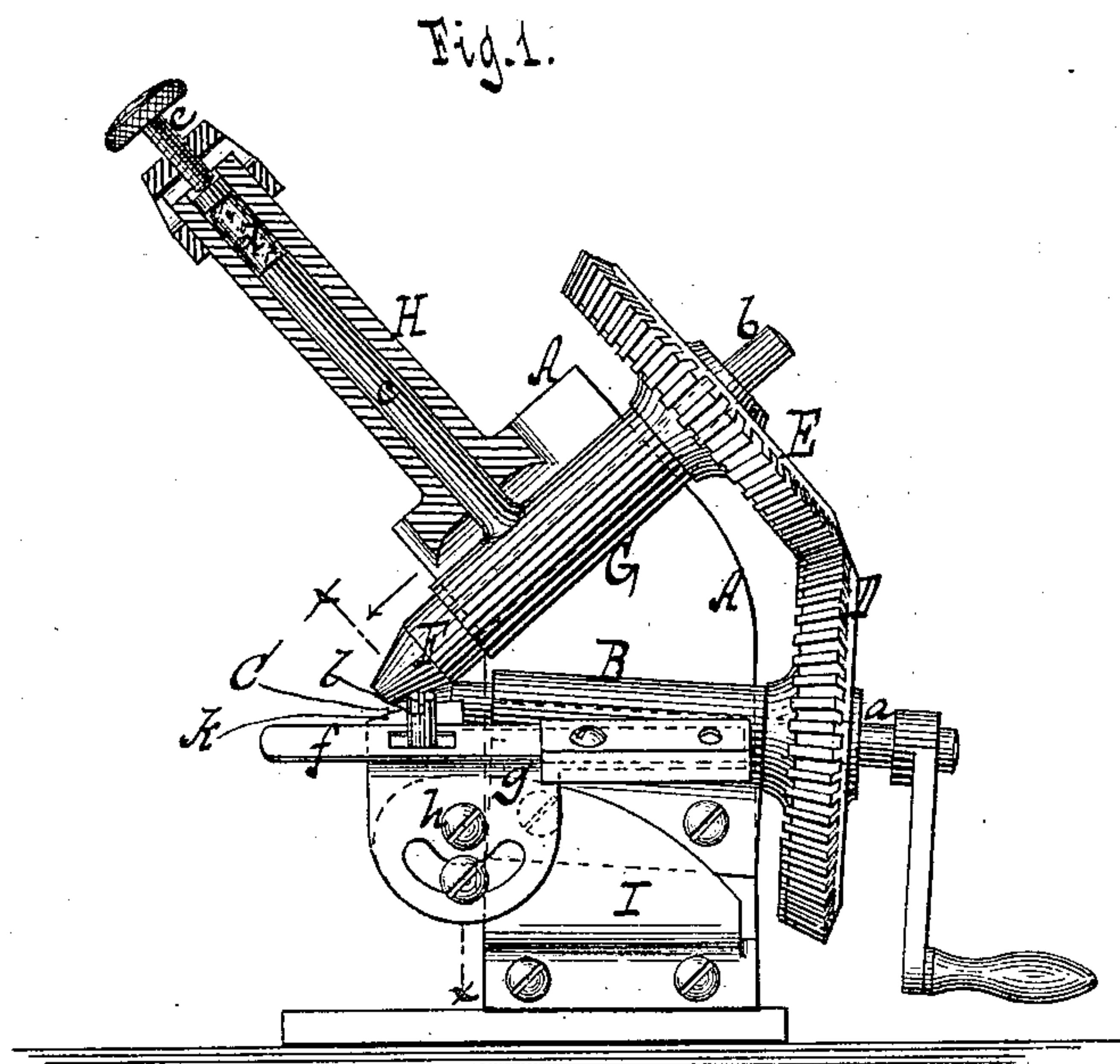


A. PELISSE.
Machine for Stretching the Sweat-Leathers of Hats.
No. 226,348. Patented April 6, 1880.



Witnesses
Otto Stufeland
William Miller

Inventor.
August Pelisse
by Van Santvoord & Haupp
his attorneys

UNITED STATES PATENT OFFICE.

AUGUST PELISSE, OF NEWARK, NEW JERSEY, ASSIGNOR TO THOMAS W. BRACHER, OF NEW YORK, N. Y.

MACHINE FOR STRETCHING THE SWEAT-LEATHERS OF HATS.

SPECIFICATION forming part of Letters Patent No. 226,348, dated April 6, 1880.

Application filed March 29, 1878.

To all whom it may concern :

Be it known that I, AUGUST PELISSE, of Newark, in the county of Essex, in the State of New Jersey, have invented a new and useful Improvement in Machines for Stretching Sweat-Leathers of Hats, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

10 Figure 1 is a side view of my machine, partly in section. Fig. 2 is a detached view of the stretching-rollers. Fig. 3 is a section in the plane *x x*, Fig. 1.

Similar letters indicate corresponding parts.

15 This invention relates to an improvement in machines for stretching sweat-leathers; and it consists in the combination of two conical rollers mounted in inclined bearings adjustable with respect to each other and mechanism for regulating the pressure exerted by said rollers on the sweat-leather. A pin, a bridge, and a spring-guide may be provided for regulating the width of the material which is to pass between the stretching-rollers and exerting tension thereon.

25 In the drawings, the letter A designates the frame of the machine, made of metal or other suitable material. To this frame is screwed or otherwise fastened a bearing or sleeve, B, in which turns the shaft *a* of the lower stretching-roller, C.

30 On the shaft *a* is keyed a bevel-wheel, D, gearing into the bevel-wheel E, keyed into the shaft *b* of the upper stretching-roller, F. The shaft *b* turns in a bearing or sleeve, G, held in position by the arm *c*, to which said sleeve is fast or forms a part. The arm *c* rests in a sleeve, H, rising from the frame A of the machine.

40 A set-screw, *e*, turning in an arm at the top of the sleeve H, is adapted to exert a greater or less pressure on the spring *d*, resting on the top of the arm *c*.

45 By turning the set-screw *e* in the proper direction the material passing between the stretching-rollers C F is exposed to greater or less pressure.

Motion is imparted to the shaft *a* or *b* by a crank or other suitable means.

50 To the frame A is screwed or otherwise

fastened a standard, I. A spring or drag, *f*, consisting of a flat elastic piece of metal, is attached to a swivel-arm, *g*. This arm *g* turns about the pivot *h* in the standard I, and can be turned to any inclined position desired, and so held by a set-screw, *i*. 55

The object of the spring *f* is to subject the sweat-leather *j*, Fig. 3, passing between it and the upper surface of the arm *g*, to the proper degree of tension and retard the forward motion of the same. A bridge, *k*, helps to stretch the sweat-leather, keeps it smooth, and prevents the edge of the sweat-leather *j* from being drawn too far in between the rollers C F. This object is also further accomplished by a pin, *l*, which is preferably made adjustable in the arm *g*, so as to allow more or less of the edge of the material to be exposed to the stretching action of the rollers. 60

I am aware that machines for stretching sweat-bands were constructed in which the shafts of the stretching-rollers occupied positions parallel to each other. The advantage of having the shafts and rollers inclined to each other is, that but one bearing need be provided for each shaft, and also that a much more effective stretching action is exerted by the stretching-rollers. 65

What I claim as new, and desire to secure by Letters Patent, is— 80

1. The combination, in a machine for stretching sweat-bands, of two conical rollers, inclined bearings adjustable with respect to each other, in which said rollers are mounted, and mechanism for regulating the pressure exerted by said rollers on the sweat-leather, all constructed and adapted to operate substantially as set forth. 85

2. The combination, in a machine for stretching sweat-bands, of two conical rollers, inclined bearings adjustable with respect to each other, in which said rollers are mounted, mechanism for regulating the pressure exerted by said rollers on the sweat-leather, and spring or drag *f*, to retard the forward motion of the sweat-leather, all constructed and adapted to operate substantially as described. 90

3. The combination, in a machine for stretching sweat-leathers, of two conical rollers, inclined bearings adjustable with respect to 100

each other, in which said rollers are mounted, mechanism for regulating the pressure exerted by said rollers, pin *l*, and bridge *k*, all constructed and adapted to operate substantially as described.

5 4. The combination, in a machine for stretching sweat-leathers, of two conical rollers, inclined bearings adjustable with respect to

each other, in which said rollers are mounted, mechanism for regulating the pressure exerted by said rollers, a spring or drag, *f*, pin *l*, and bridge *k*, substantially as described.

A. PELISSE.

Witnesses:

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JAMES H. HUNTER.