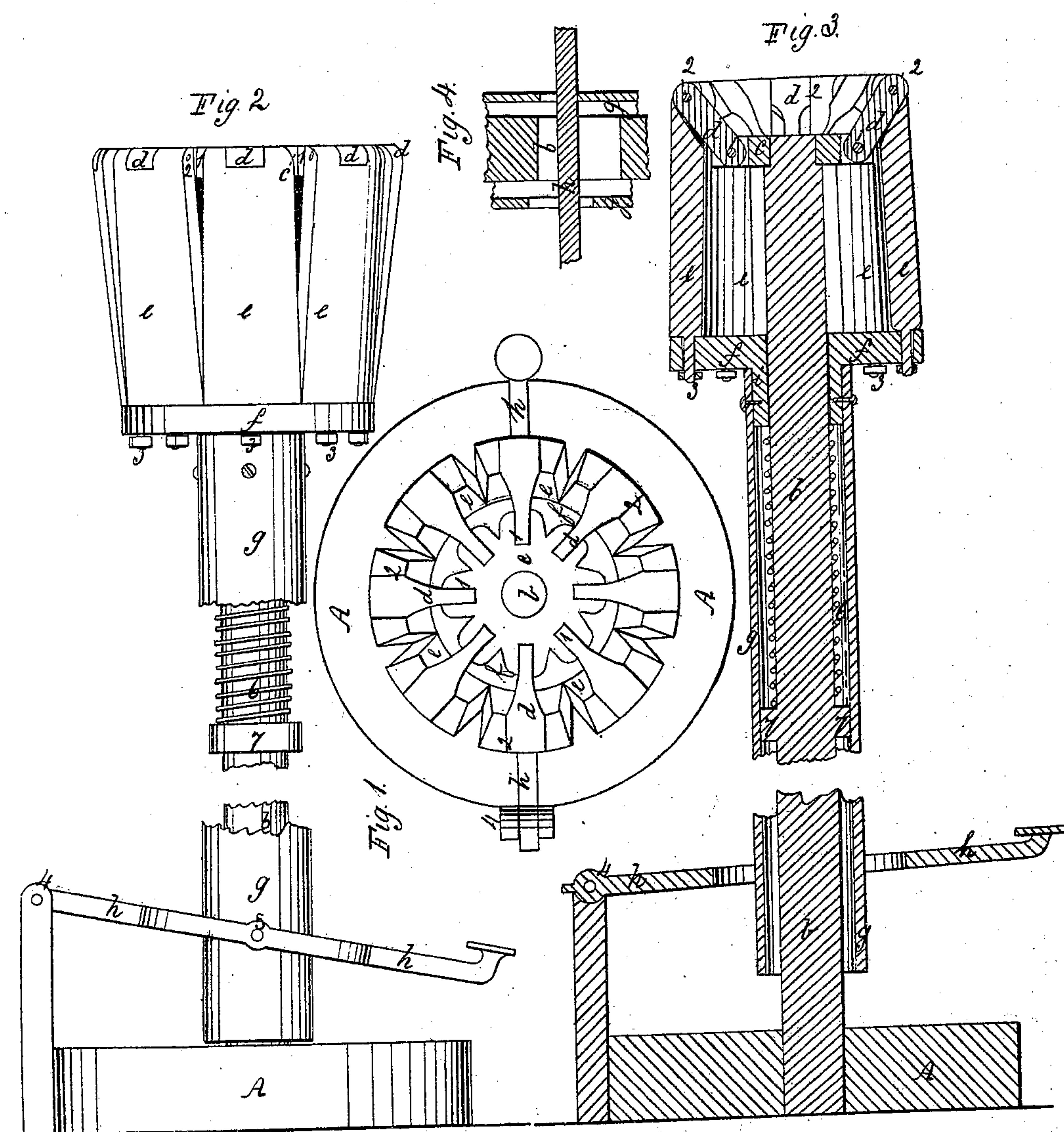


W. Selpho.
 Blocking & Stretching Hats.
 N^o 5082 Patented Apr. 24, 1847.



Witnesses

W. S. Sarnell
 Samuel W. Sarnell

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WILLIAM SELPHO, OF NEW YORK, N. Y.

MACHINERY FOR PULLING OUT HAT-TIPS.

Specification of Letters Patent No. 5,082, dated April 24, 1847.

To all whom it may concern:

Be it known that I, WILLIAM SELPHO, of the city, county, and State of New York, machinest, a native of Great Britain, having
5 resided more than one year next preceding the date hereof in the United States and having duly made oath of my intention to become a citizen thereof, have invented and made and applied to use certain new and
10 useful Improvements in Mechanical Means of Stretching and Pulling out Hat Tips and Crowns, for which improvements I seek Letters Patent of the United States, and that the said improvements and the means of
15 constructing and using the same are fully and substantially set forth and shown in the following description and in the drawing annexed to and making a part of this specification, wherein—

20 Figure 1, is a general plan, Fig. 2, is a vertical elevation, and Fig. 3, is a vertical sectional elevation, through the center of Fig. 1, and the same letters and numbers as marks of reference apply to the like parts in
25 all the several figures.

A, is either the floor, or a block, on which the machine rests; which carries a vertical rod or standard *b*, carrying, on its upper end, a circular block *c*, mortised to take the
30 ends of six, eight, or more, connecting links *d*, jointed by bolts 1, 1, see Fig. 3, to the block *c*, the outer ends of the links *d*, are jointed at 2, to the upper ends of the vertical staves *e*, these are jointed at the lower end,
35 by the nuts and screws 3, to the table, or platform *f*, which is nearly the size of the internal diameter, of a small sized hat, and is fitted to allow of motion up and down, the standard *b*.

40 The platform *f*, is connected to the top of the vertical pipe, or cylinder *g*, which surrounds the standard *b*, by a socket piece *i*, and screws; the cylinder *g*, reaches to within a short distance of the block A, and has,
45 near its lower end, a stirrup and lever *h*, with a fulcrum 4, and joint 5, to the cylinder *g*.

A collar 7, around the standard *b*, and within the cylinder *g*, sustains the lower end

of a helical expansive spring 6, which acts 50 against the socket piece *i*, of the platform *f*, to keep that, and the staves *e*, up in place, by pressing all the movable parts upward. When thus fitted, and in place for use, the workman takes the felt body, (previously 55 prepared for stretching in the usual manner,) and pulls it down over the staves *e*, and putting his foot on the lever *h*, pulls the cylinder *g*, platform *h*, and staves *e*, down, and the connecting links *d*, acting at the 60 same time to open the staves *e*, the felt is stretched out, into nearly the desired form, for the upper part, or crown of the hat, the felt body is then ready, and removed, for the usual process of blocking, and the spiral 65 spring 6, presses the platform *f*, up, and closes the staves *e*, ready for another felt body.

The Fig. 4, shows a mode of carrying the lever *h*, through a slot in the cylinder *g*, and 70 standard *b*, instead of encircling the cylinder *g*, as before described.

The platform *f*, may be made stationary, and the standard *b*, be made to rise up, without the spring, and without substan- 75 tially varying the arrangement hereinbefore described; or the lower part of the staves may be jointed, by links, the same as the upper part, so that the staves will be thrown out, parallel, although I prefer, and use, the 80 modes previously described.

What I claim as new, and of my own invention, and desire to secure by Letters Patent, is—

The making a machine to form hat crowns, 85 by the constructive combination of the platform *f*, staves *e*, and links *d*, with the cylinder *g*, spring 6, lever *h*, and standard *b*, when applied to such uses, substantially as described and shown. 90

In witness whereof, I have hereunto set my hand, in the city of New York, this fifteenth day of January one thousand eight hundred and forty-seven.

WILLIAM SELPHO.

Witnesses:

W. SERRELL,
SAMUEL W. SERRELL,