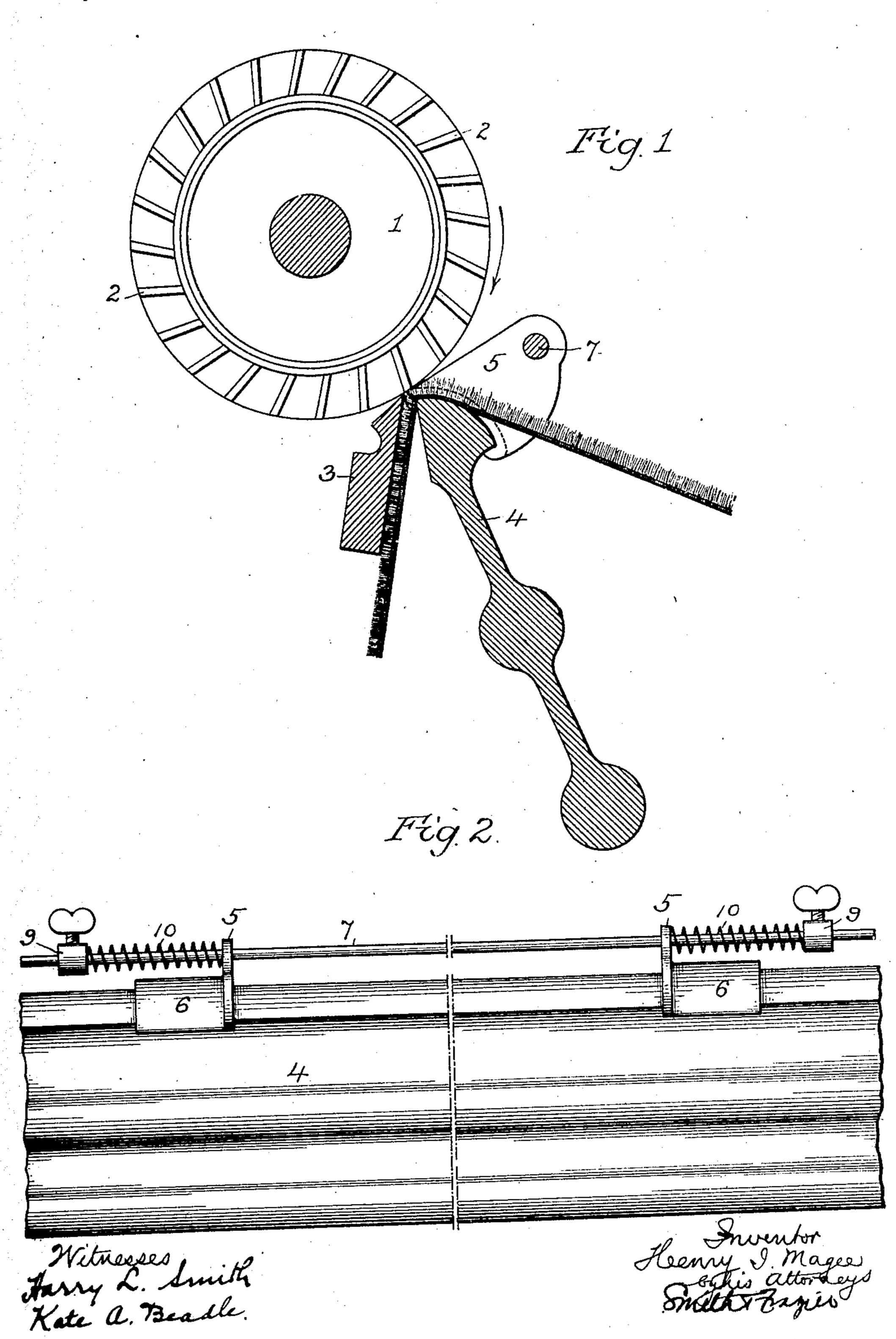
H. I. MAGEE.

MACHINE FOR SHEARING WOVEN PILE FABRICS.
APPLICATION FILED JULY 2, 1908.

918,349.

Patented Apr. 13, 1909.



UNITED STATES PATENT OFFICE.

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MACHINE FOR SHEARING WOVEN PILE FABRICS.

No. 918,349.

Specification of Letters Patent.

Patented April 13, 1909.

Application filed July 2, 1908. Serial No. 441,663.

To all whom it may concern:

Be it known that I, HENRY I. MAGEE, a citizen of the United States, residing in other portion of the pile. Philadelphia, Pennsylvania, have invented 5 certain Improvements in Machines for Shear- | vided with extended bases 6, which embrace 60 ing Woven Pile Fabrics, of which the follow- | the upper member of the guide bar 4 and are ing is a specification.

for the proper trimming or shearing of the lings in the outer portions of the presser 10 pile of the fabric at and near the selvage | plates 5 I pass a rod 7, provided at each end 65 edges of the same. This object I attain in | with a collar 9, adjustable lengthwise on the the manner hereinafter set forth, reference rod, a coiled spring 10 being interposed bebeing had to the accompanying drawing, in tween this collar and the corresponding

which—

of sufficient of the machine to illustrate my! the latter. Not only are the presser plates 5, invention, and Fig. 2 is a front view, on a therefore, permitted to move from and tosmaller scale, of that portion of the machine | ward each other to accommodate themselves

to which my invention relates.

In Fig. 1 of the drawing, 1 represents the rotary cylinder of the machine having the projecting cutting blades 2, usually disposed in a spiral form upon the periphery of the cylinder, 3 represents the stationary cutting 25 blade with which the cutting blades of the cylinder coöperate, and 4 represents the guide bar located in front of said stationary cutting blade, the web to be sheared passing over the top of this guide bar and then down 30 between the same and the fixed cutting blade 3, whereby, when the cylinder 1 is rotated in the direction of the arrow, all of that portion of the pile which projects beyond the limit predetermined by the relative positions of 35 the cylinder, fixed blade and guide bar will be sheared off and the pile will be reduced to a uniform level. In machines of this class difficulty has been experienced in effecting the proper shearing of the pile at and near 40 the selvage edges of the fabric, for such pile, being without outer lateral support, is not held up firmly to the cutting blades but can be deflected sufficiently to escape the proper shearing or cutting action of said blades, 45 with the result that the pile at and near the selvages is not properly trimmed but presents | the web which is being sheared, and means a ragged and irregular appearance. In order | for imparting yielding inward pressure to overcome this defect, I locate, above the thereto. top of the guide bar 4 and at each selvage of 50 the fabric, a presser plate 5, free to move laterally on the guide bar and subjected to a yielding inward pressure which maintains it | deflection of the pile at the selvage edges of constantly in contact with the selvage edge | the web which is being sheared, said pressing

upstanding position and is consequently sheared or trimmed as effectively as any

The presser plates 5 are preferably proretained against displacement while free to The object of my invention is to provide | move to-and-fro thereon, and through openpresser plate, as shown in Fig. 2, so as to ex-Figure 1 is a vertical longitudinal section | ert the desired yielding inward pressure upon 70 to fabrics of different widths, but the entire structure, comprising the two presser plates, 75 the rod, the collars, and the springs, is free to move laterally in one direction or the other upon the top member of the guide bar 4 as the web of fabric changes its lateral position thereon, slight changes in this respect con- 80 stantly taking place during the operation of the machine owing to the fact that the web is usually deposited in loose folds on the floor, or on a supporting table or bench in front of the machine, and is therefore not 85 accurately alined when it passes over the top of the guide bar 4.

I claim:—

1. A pile fabric shearing machine having pile cutting mechanism and means located at 90 the selvage edges of the web which is being sheared, and providing lateral support for the pile at such edges, said pile-supporting means extending so closely to the shearing devices as to prevent lateral deflection of the 95 pile while it is being cut.

2. A pile fabric shearing machine having pile cutting mechanism, means adjacent to the shearing device for preventing lateral deflection of the pile at the selvage edges of 100

3. A pile fabric shearing machine having pile cutting mechanism and means adjacent 195 to the shearing device for preventing lateral of the web, whereby the pile at and near the | means being free to move laterally with the 55 selvage edges is caused to retain its proper | web.

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4. A pile fabric shearing machine having pile cutting mechanism, means adjacent to the shearing device and movable laterally with the web for preventing lateral deflection of the pile at the selvage edges of the web which is being sheared, and means for imparting yielding inward pressure to said pile supporting devices.

5. A pile fabric shearing machine having pile cutting mechanism, a guide bar for the web to be sheared, and means adjacent to the shearing device and free to move laterally on the top member of said guide bar for preventing lateral deflection of the pile at the

15 selvage edges of the web.

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6. A pile fabric shearing machine having pile cutting mechanism, a guide bar for the web to be sheared, means adjacent to the shearing device and laterally movable on the top member of said guide bar for preventing lateral deflection of the pile at the selvage edges of the web, and means for imparting yielding inward pressure thereto.

7. A pile fabric shearing machine having pile cutting mechanism, a guide bar for the web to be sheared, and means adjacent to the shearing device and free to move laterally upon the upper member of said guide bar,

but otherwise confined thereto, for preventing lateral deflection of the pile at the selvage 30

edges of the web.

8. A pile fabric shearing machine having pile cutting mechanism, a guide bar for the web to be sheared, means adjacent to the shearing device and movable laterally upon 35 the upper member of said guide bar, but otherwise confined thereto, for preventing lateral deflection of the pile at the selvage edges of the web, and means for imparting yielding inward pressure thereto.

9. A pile fabric shearing machine having mechanism for cutting the pile, a guide bar for the web, presser plates adjacent to the shearing device and free to move laterally on said guide bar and contacting with the 45 selvage edges of the web, a rod passing through said presser plates, collars on said rod, and springs interposed between said

presser plates and said collars.

In testimony whereof, I have signed my 50 name to this specification, in the presence of two subscribing witnesses.

HENRY I. MAGEE.

Witnesses:

WM. M. BRINKWORTH, ANNA HULSHIZER.