

UNITED STATES PATENT OFFICE.

JOSEPH LLOYD HAIGH, OF NEW YORK, N. Y., ASSIGNOR TO EAGLETON
MANUFACTURING COMPANY, OF SAME PLACE.

IMPROVEMENT IN THE METHOD OF MANUFACTURING FURNITURE-SPRINGS.

Specification forming part of Letters Patent No. 123,627, dated February 13, 1872.

Specification describing a certain Improvement in the Manufacture of Furniture-Springs, invented by JOSEPH LLOYD HAIGH, of the city, county, and State of New York.

My improvement pertains to that portion of the manufacture of springs for furniture, mattresses, &c., which relates to the compressing or condensation of the spring after it is coiled; and my improvement consists in effecting the required compression of the spring after it has been tempered, whereby I produce a stronger and better article.

In carrying out my invention, I employ the usual sizes and qualities of material; and I coil the wire of which the spring is to be composed upon a block, in the usual manner. After removing the coil from the block, it is then in a very long or open condition; and the common method is to subject the spring to powerful compression in a press, so as to condense the coils and give the spring the proper set. After this compression, the springs are tempered and finished, and are then ready for use.

My improvement differs from the ordinary method in this, that, after I have coiled the spring on the block in the usual manner, I then temper the spring in the ordinary way, and after the tempering I submit the spring to the compressing operation by the usual means,

thus giving it the proper set; after which I finish and dress the spring in the ordinary manner.

The result of my improvement—which, as before stated, consists in giving it the set or compression after it is tempered instead of before tempering—is to increase the stiffness and strength of the spring.

I find by actual experiment that—as between springs made of precisely the same size of wire coiled, compressed, tempered, and treated alike in all respects, except in regard to the compression after tempering, as described—that the springs that are set or compressed subsequent to the tempering are at least fifteen per cent. stronger and better than those made in the ordinary manner.

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

The improvement in the manufacture of furniture-springs, as herein described, consisting in subjecting the spring to set or compression after it is tempered, substantially as set forth.

J. LLOYD HAIGH.

Witnesses:

T. B. MOSHER,
GEORGE W. MABEE.