

No. 655,756.

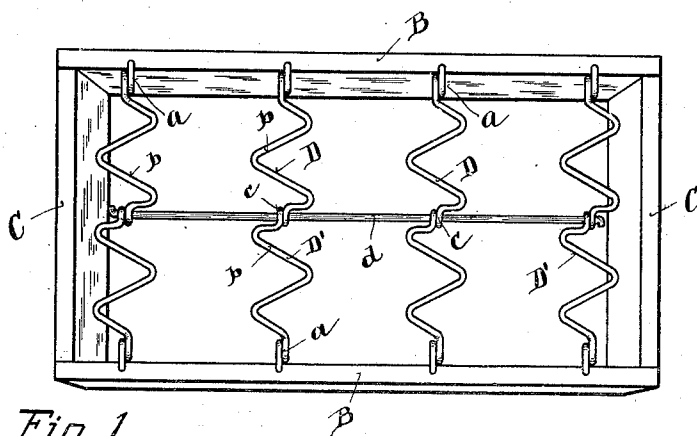
Patented Aug. 14, 1900.

F. BUOB.

SPRING FOR UPHOLSTERED CUSHIONS.

(Application filed Nov. 20, 1899.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

FREDERICK BUOB, OF CINCINNATI, OHIO.

SPRING FOR UPHOLSTERED CUSHIONS.

SPECIFICATION forming part of Letters Patent No. 655,756, dated August 14, 1900.

Application filed November 20, 1899. Serial No. 737,565. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK BUOB, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Springs for Upholstered Cushions, of which the following is a specification.

The object of my invention is to provide improved upholstering springs particularly adapted to be applied to buggy-seats.

The features of my invention will be more fully set forth in the description of the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a top plan view of my invention. Fig. 2 is a perspective view of the single spring and its support.

B B represent the side frame-pieces, and C C the end frame-pieces.

The series of springs which support the cushion are composed of duplicate sections D D'. The outer ends of each section are firmly engaged with the seat-frame B. They are provided at this point with a coil *a* and from thence toward the center are bent in zigzag, V-shaped, or undulating projections *b b*, forming transverse or fabric-like cushion-supports. The sections of spring thus bent are preferably advanced toward their meeting ends in arch-like form. The inner ends of the two sections have the hooks *c c*, which engage over a common supporting spring-rod *d*, thus forming a yielding joint, thereby increasing the flexibility of the spring vertically and avoiding the stiffness which would arise if the springs were all made in one piece.

It will be readily seen that the vertical coils sustain all the downward pressure brought to bear upon the cushion and that the same is distributed over a substantially-complete spring-surface by reason of the horizontal zigzag or undulating arrangement of the springs, so that a strain cannot be imparted to any portion of the cushion-surface where it will not be received by a spring-bearing.

The hook engagement of the springs over a common supporting-rod at their inner meet-

ing ends is an important feature, as the springs not only mutually support each other at this point, but they maintain to a certain extent independent action, the hooks moving upon their mutual supporting spring-rod as the springs adjust themselves to support the pressure brought to bear upon them. Again, the expansion or contraction and wear of the metal are very easily provided for by either extending or diminishing the hook portion or by detaching the hooks and compressing or stretching the spring-coils. By this means a perfectly uniform and equal spring-bearing support is provided for the cushion, which can be maintained throughout the life of the springs, as above explained. This construction is remarkably cheap, the operation efficient, and the life of the ordinary upholstered cushion is nearly doubled thereby. Of course the number of springs employed may be varied at will. Also the configuration of the loops and undulations may be varied, provided they retain the function which they are designed to form. It is also obvious that my invention can be applied to any desired style of upholstering for any purpose.

Having described my invention, I claim—

1. In a buggy-cushion, the combination of a rectangular frame, a plurality of springs each having a vertical coil near one end attached to the side of the frame, the springs having horizontal undulations bearing against the cushion, a loop formed in the other end of each spring, and a spring-rod over which the loop ends of said springs engage, substantially as specified.

2. In a buggy-cushion, the combination of a rectangular frame, a plurality of springs attached to the opposite sides of said frame, each spring having a vertical coil near its attached end, and an arched extension having horizontal undulations bearing against the cushion, the meeting ends of the oppositely-disposed springs having loops, and a spring-rod over which the meeting loop ends of said springs engage, substantially as specified.

3. In a buggy-cushion, the combination of a rectangular frame, duplex springs attached

to the opposite sides of said frame, having
vertical coils near such attached ends and
horizontal undulations bearing against the
cushion-bottom, loops formed on the meeting
5 end of said springs in vertical planes, and a
horizontal flexible steel rod passed through
said loops and supporting said springs mak-
ing a jointed spring connection between the

independent springs, substantially as speci-
fied. 10

In testimony whereof I have hereunto set
my hand.

FREDERICK BUOB.

Witnesses:

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OLIVER B. KAISER.