

W. C. MEDCALF.
Lawn Seats.

No. 142,927.

Patented September 16, 1873.

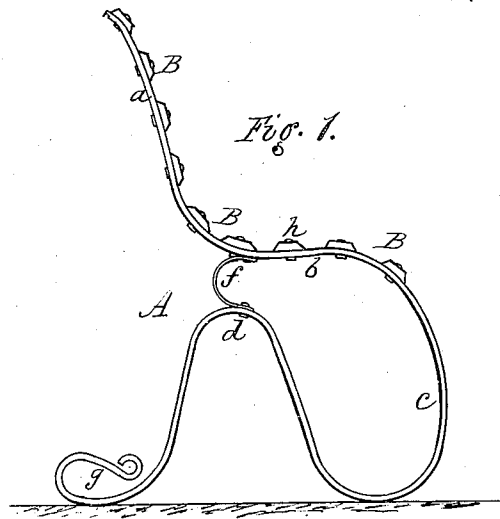


Fig. 2.

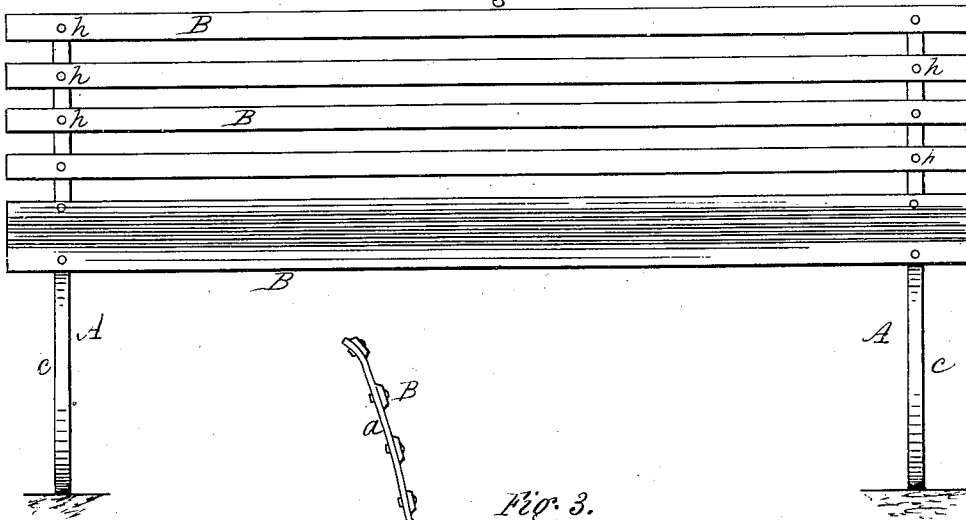


Fig. 3.

Witnesses.

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per R. F. Osgood,
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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN LAWN-SEATS.

Specification forming part of Letters Patent No. **142,927**, dated September 16, 1873; application filed May 21, 1873.

To all whom it may concern:

Be it known that I, WILLIAM CHRISTOPHER MEDCALF, of the city of Rochester, in the county of Monroe and State of New York, have invented a certain new and useful Improvement in Lawn-Seats; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

My invention consists of a seat having its ends or supports formed of strap-metal bent in a peculiar way, as hereafter described, and and united by wooden slats bolted thereto, said slats forming the seat proper and back.

In the drawings, Figure 1 is an end elevation; Fig. 2, a front elevation; Fig. 3, a view similar to Fig. 1, but showing a modification.

A A represent the ends or standards, and B B B represent the slats. Each of the ends A A is made from a single piece of strap-metal of proper size, which is bent into the form shown. The back *a* stands upright, having the proper curve for the attachment of the slats. The part *b* is then bent to form the seat. A loop, *c*, is then formed, which gives the proper curve to the front of the seat, and also forms the front support or leg which supports the device. The strap is then carried upward to form the bend *d*, which may either extend clear to the top to form the support to the part *d*, to which it is bolted, or it may extend only part way up, and a spring, *f*, may be interposed between parts *b* and *d*, as shown in Fig. 1. From the bend *d* the strap is carried downward and backward, and bent at the bottom to form the loop *g*, which constitutes the rear standard or leg of the seat. The slats B B are secured to these end supports simply by bolting or riveting, as shown at *h h*. Two supports, one at each end, will be generally found sufficient, but intermediate ones may be used, if desired.

One advantage of this construction is the extreme cheapness and lightness of the device, and its great strength. Another advantage results from the peculiar form of the straps, in which the back, the seat, and the

two legs are formed from the single piece, together with the support or brace *d*, which rests under the seat. Another advantage is that the ends of the device have a degree of elasticity and yieldingness which obviates the rigidity experienced in cast-iron or wooden ends. This is especially the case with the back of the seat, which is quite elastic. Another advantage results from securing the slats directly to the ends by bolting, thereby making the slats themselves form the stiffening across, instead of connecting the ends by an independent framing of iron or wood.

A special advantage results from the use of the interposed spring *f*, which is preferably made of the half-circular or curved form shown. This spring practically allows a disconnection of the upper and lower parts of the frame, by which a free elastic rocking action is secured, and yet keeps them properly together. In addition to this, it has the ordinary function of a spring, to give a vertical elasticity to the seat.

In addition to lawn use, this seat may be used in any other manner desired; for instance, in halls and on verandas.

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

1. A seat constructed with end supports A A, made of strap-metal in a single piece, bent or formed into the back *a*, seat *b*, and legs or supports *c g*, with standard-brace *d*, as shown and described, in connection with slats B B, which are bolted or riveted directly to said side supports, substantially as specified.

2. In combination with the side supports A, bent so as to form an upper and lower half, the spring *f* interposed between the said parts, in the manner and for the purpose specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

WILLIAM C. MEDCALF.

Witnesses:

R. F. OSGOOD,
HENRY M. THOMAS.