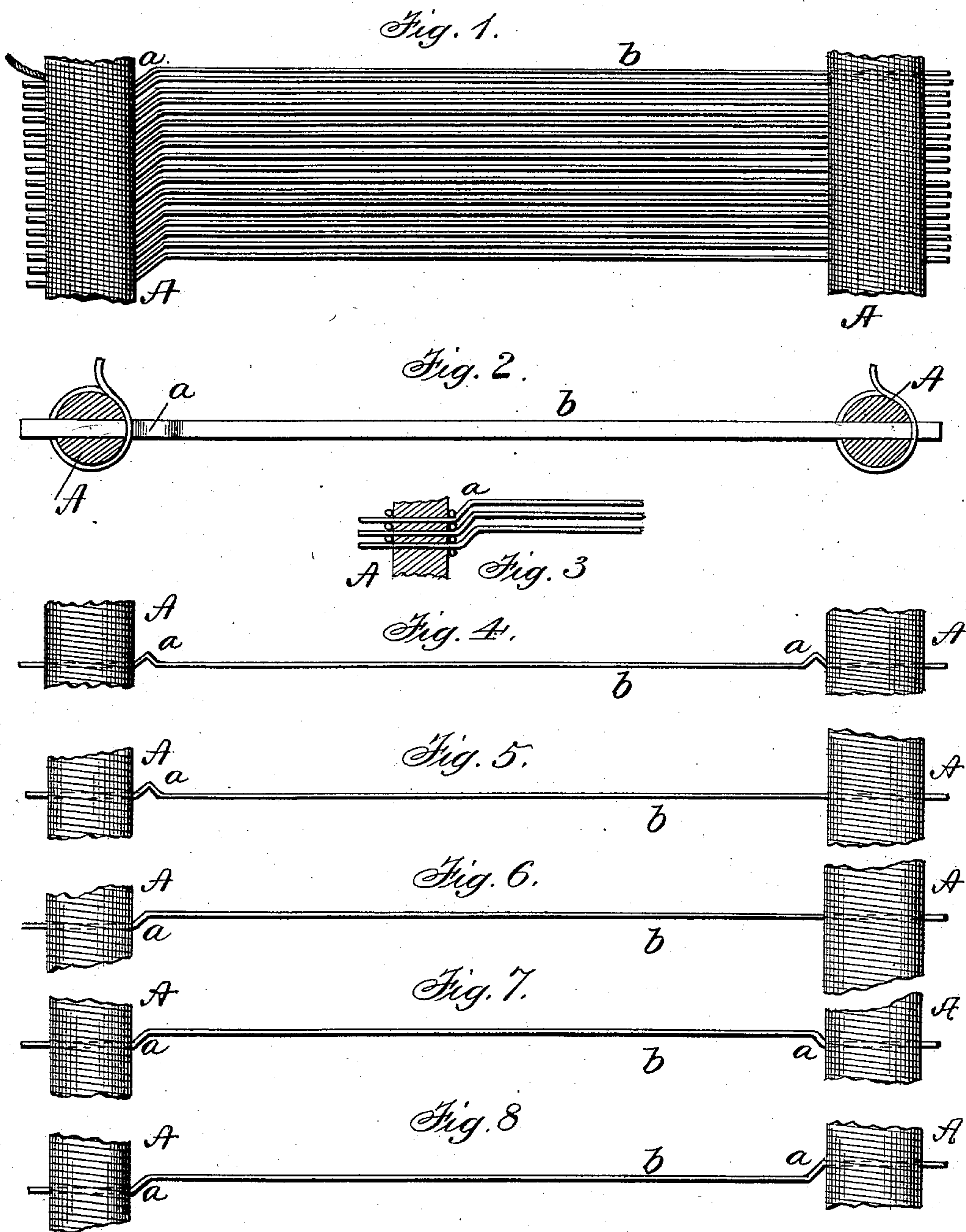


(No Model.)

J. ADAMSON  
LOOM REED.

No. 571,182.

Patented Nov. 10, 1896.



Witnesses:  
F. L. Curand.  
Geo. J. Weber

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Attorney.



# UNITED STATES PATENT OFFICE.

JOSEPH ADAMSON, OF PAWTUCKET, RHODE ISLAND.

## LOOM-REED.

SPECIFICATION forming part of Letters Patent No. 571,182, dated November 10, 1896.

Application filed January 28, 1896. Serial No. 577,162. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH ADAMSON, a citizen of the United States, and a resident of Pawtucket, in the county of Providence and State of Rhode Island, have invented new and useful Improvements in Loom-Reeds; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My present invention relates to improvements in that class of reeds which are designed for use in looms for weaving; and it consists, essentially, in the novel construction and arrangement of the wires or dents whereby an elastic movement of the same is secured within the reed.

In the accompanying drawings, Figure 1 represents an elevation of my improved reed; Fig. 2, a transverse section of the same, and Figs. 3, 4, 5, 6, 7, and 8 similar views of modified forms of my invention.

Similar letters of reference occurring on the several figures indicate like parts.

In carrying out my invention a suitable bend or curvature *a* is formed in each of the wires or dents *b* inside the reed and next to the back *A* in such manner as to allow an elastic movement of the wires or dents within the reed, thereby reducing friction upon the said wires or dents and increasing the usefulness—that is to say, the resiliency or elasticity of the dents laterally permit of greater freedom of the warp-threads through the reed, and especially those threads which have knots,

tufts, or other imperfections—of the same while in operation.

The wires or dents of the reed are arranged in the usual manner in parallel lines and are firmly wound and held rigidly in position in the back of the reed, the elastic movement being secured by the expansion of the wires at the parts *a*, and the return to their normal positions by virtue of the springy nature which the formation of the wire imparts.

It will be observed that the wires may be provided with the small bends or curvatures *a* at or near both backs or on one side only, and the form or shape of the bends or curves may be varied or modified at pleasure to produce the elastic action desired. It will thus be seen that the spring action or elasticity of the wires or dents is confined wholly between the backs of the reed, the ends of the said wires being firmly bound in the backs of the same.

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

As an improved article of manufacture, a weaver's reed composed of the backs *A*, and a series of resilient dents or wires *b* each provided with bends *a* within the reed and at or near the backs thereof, the ends of the said dents or wires being rigidly secured in position in the backs *A*, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two subscribing witnesses.

JOSEPH ADAMSON.

Witnesses:

PETER V. QUINN,  
MATTHEW DEAHY.