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Patented Sept. 17, 1901.

H. E. ADAMS & O. R. STAPFER.  
REED FOR CREEL FRAMES.

(Application filed Jan. 22, 1901.)

(No Model.)

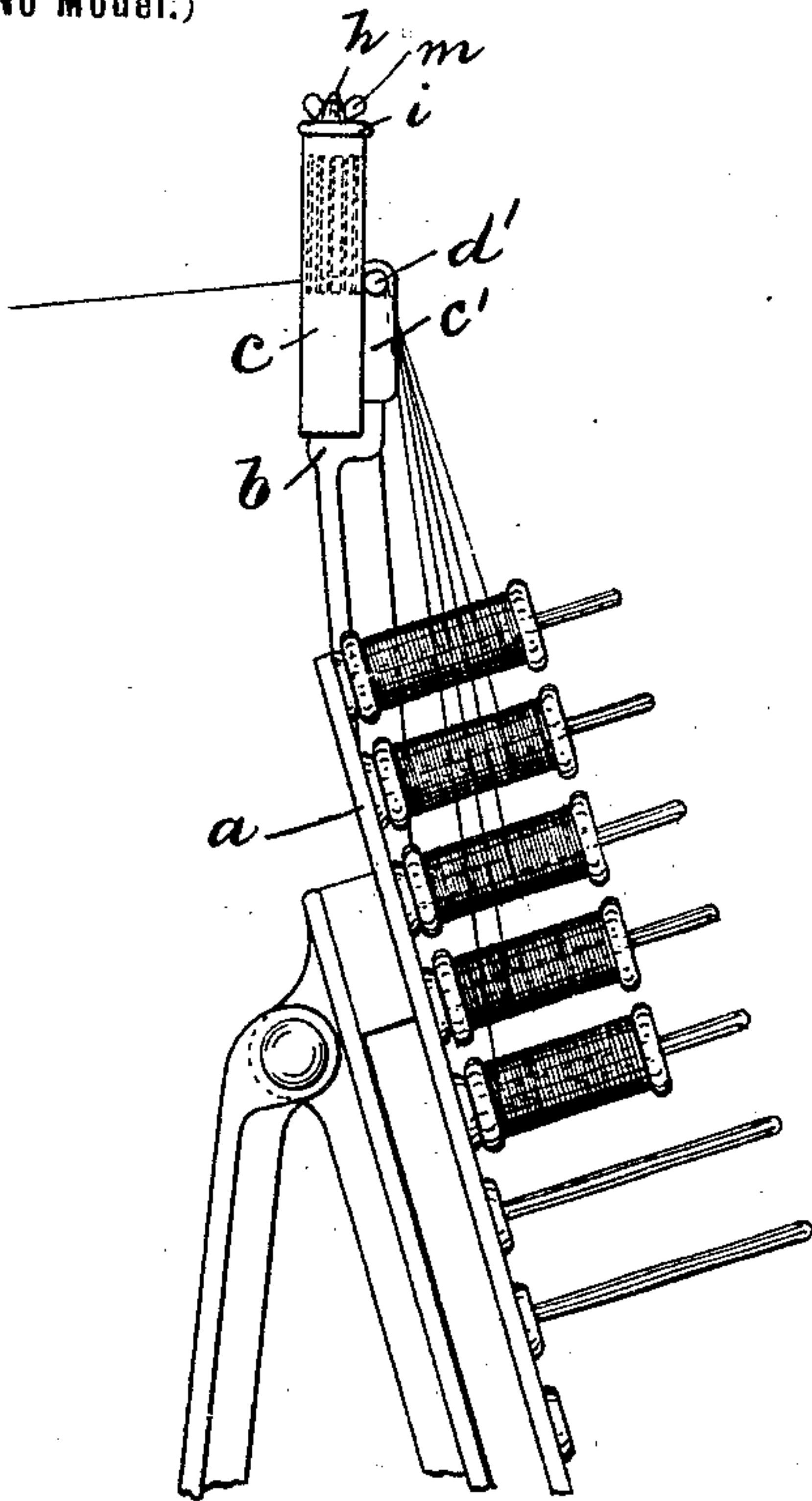


Fig. 1.

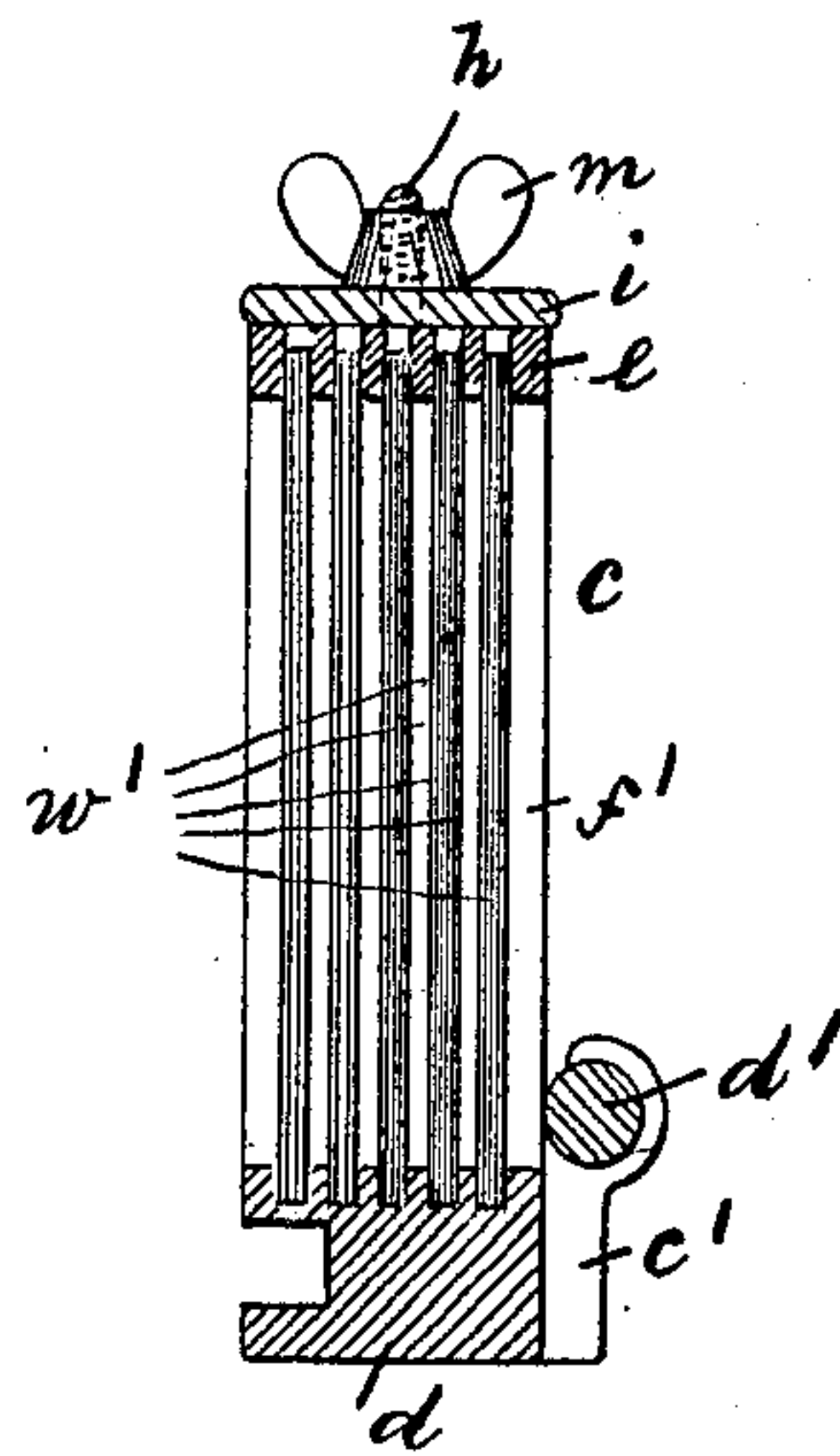


Fig. 3.

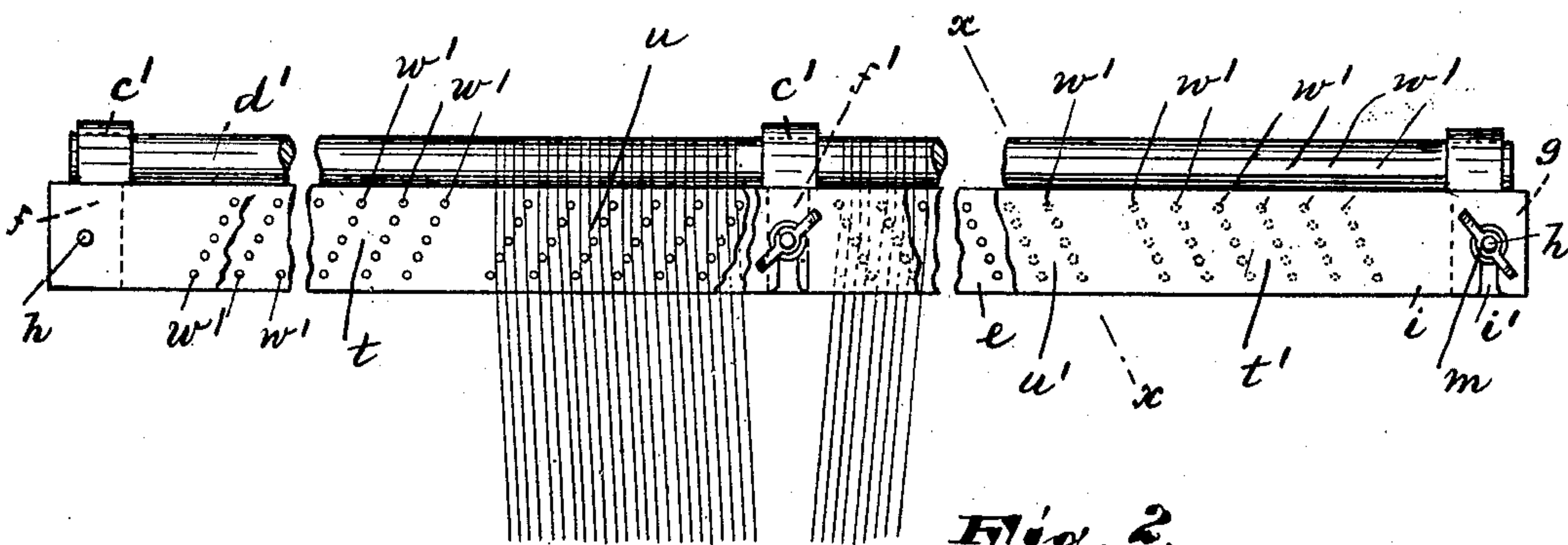


Fig. 2.

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# UNITED STATES PATENT OFFICE.

HAROLD E. ADAMS AND OTTO R. STAPFER, OF PATERSON, NEW JERSEY.

## REED FOR CREEL-FRAMES.

SPECIFICATION forming part of Letters Patent No. 682,777, dated September 17, 1901.

Application filed January 22, 1901. Serial No. 44,246. (No model.)

*To all whom it may concern:*

Be it known that we, HAROLD E. ADAMS and OTTO R. STAPFER, both citizens of the United States, residing in Paterson, county of Passaic, and State of New Jersey, have invented certain new and useful Improvements in Reeds for Creel-Frames; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in reeds for creel-frames.

Its object is to provide a reed for creel-frames of simple, strong, and durable construction, efficient in operation, and capable of being used on creel-frames with an increased number of bobbins, the reed being so constructed that a mixing up or twisting of the adjacent warp-threads is fully prevented.

The invention consists in the improved reed and in the combination and arrangement of the various parts thereof, substantially as will be hereinafter more fully described and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several views, Figure 1 is a side elevation of the top portion of an ordinary creel provided with our improved reed. Fig. 2 is a top plan view of the reed detached, certain portions being removed and others broken away to better illustrate the nature of our said invention; and Fig. 3 is an enlarged sectional view on the line *x x* of Fig. 2.

In said drawings, *a* represents a creel-frame, to the top portion *b* of which is secured the reed *c* in the usual and well-known manner. The reed *c* consists of a rectangular frame, comprising a base-plate *d* and a top plate *e*, secured together by the side bars *f* and *g* and strengthened by a center bar or partition *f'*. On said frame is removably arranged a cap or cover *i*, provided with elongated open slots *i'*, adapted to be penetrated by screw-threaded pins *h*, projecting from the side bars *f* and *g* and from the center bar or partition *f'*, respectively, and on which screw-threaded pins

wing-nuts *m* are placed for securing the cap or cover in position, as can be clearly seen from Figs. 2 and 3 of the drawings. Within the frame and on each side of its partition *f'* are arranged the dents *w'*, which dents are preferably made of glass and, as can be seen from Fig. 2 of the drawings, are placed within said frame in sections *u t* and *u' t'*, respectively, each section consisting of dents arranged in series, said series being parallel to each other, but at angle to the glass rod *d'*, which is secured to or arranged in brackets *c'*, projecting from the rear of the reed *c*. In other words, the dents are arranged in parallel rows, each at an angle to the said glass rod *d'*. It must be remarked that the dents on both sides of the partition *f'* are arranged symmetrically—that is to say, the corresponding rows form acute angles, the points of which are in the plane of the said partition *f'*. For the purpose of securing the glass dents within the reed-frame its base-plate *d* is provided with sockets, while the top plate *e* is penetrated by a corresponding number of holes or openings in alinement with the respective sockets and adapted to receive the glass dents in a manner clearly shown in Fig. 3. The warp-threads are passed from the bobbins through the corresponding dents and on account of the peculiar arrangement of said dents within the reed-frame are completely separated from each other, and accordingly the danger of getting them mixed up or twisted together is fully avoided. Whenever it is necessary to replace a broken dent, the wing-nuts *m* are loosened and the top or cover *i* is withdrawn, thereby uncovering the vertical holes or openings in the top plate *e* and permitting the removal and replacing of the dents, as will be manifest.

We do not wish to limit ourselves to the precise construction shown and described, as various alterations can be made without changing the scope of our invention; but

What we claim as new, and desire to secure by Letters Patent, is—

1. A reed for creel-frames, consisting of a rectangular frame, comprising a base-plate, a top plate, side bars for securing the base and top plates together, a center bar or partition within said rectangular frame, screw-threaded pins projecting upwardly from the side bars and from the center bar or parti-



tion, a cap or cover removably arranged on the top plate and provided with open elongated slots adapted to be penetrated by said screw-threaded pins, wing-nuts on said pins, 5 and removably-arranged dents penetrating said top plate and seated in the base-plate, all said parts substantially as and for the purposes described.

2. A reed for creel-frames comprising a rectangular frame, a transverse bar or partition 10 mounted in the central portion of said frame, dents in said reed-frame and arranged in parallel rows and forming a series of sections on each side of the center bar, the corresponding rows on opposite sides of the partition 15 forming acute angles, the points of which are

in the plane of said partition, a single rod or bar extending continuously in front of the series of parallel rows of dents, and brackets sustaining the said rod or bar above the front 20 edge of the lower part of the creel-frame, all said parts substantially as and for the purposes described.

In testimony that we claim the foregoing we have hereunto set our hands this 14th day 25 of January, 1901.

HAROLD E. ADAMS.  
OTTO R. STAPFER.

Witnesses:

ALFRED GARTNER,  
ROBERT J. POLLITT.