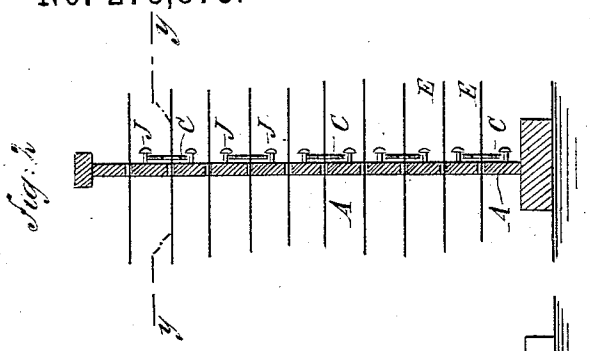
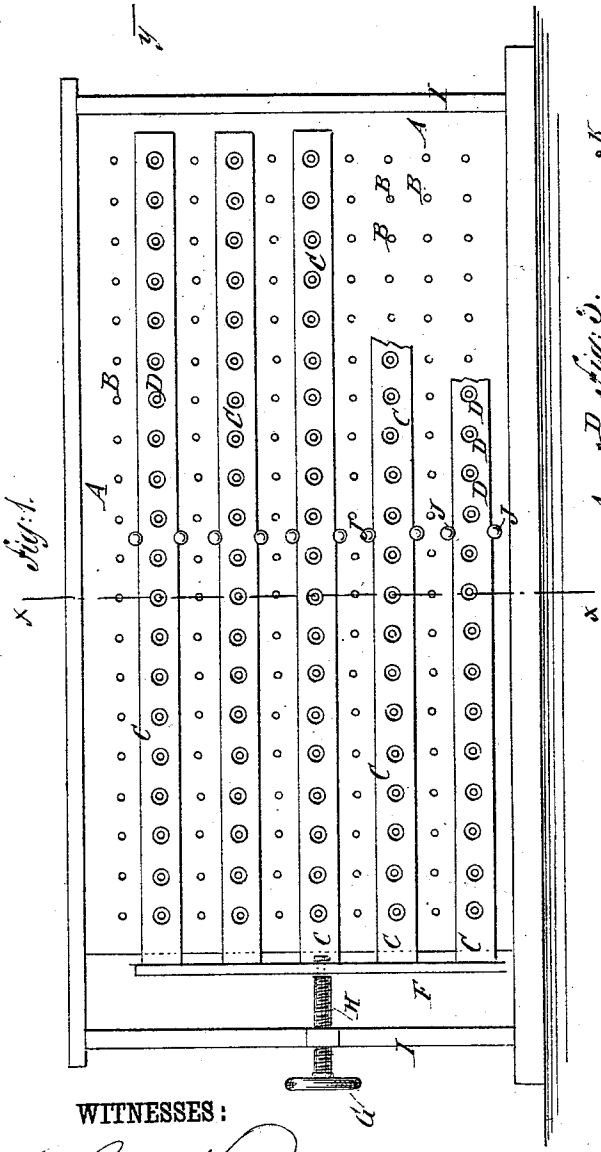
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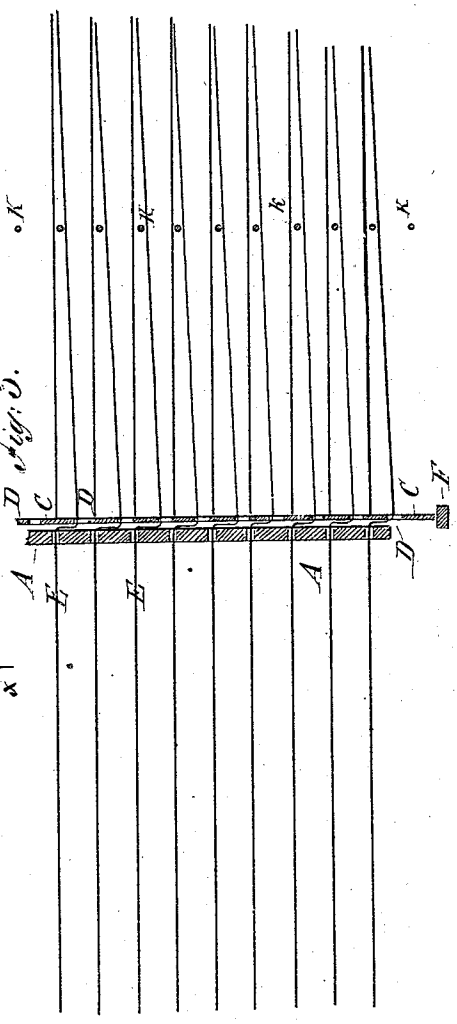
E. CADIGON.

BEAMER.

No. 278,873. Patented June 5, 1883.







WITNESSES:

Chas. Nida.

C. Bedgwick

INVENTOR:

E. Cadigon

BY Munn & Co

ATTORNEYS.

N. PETERS. Photo-Lithographer, Washington, D. C.

(No Model.)

2 Sheets—Sheet 2.

E. CADIGON.

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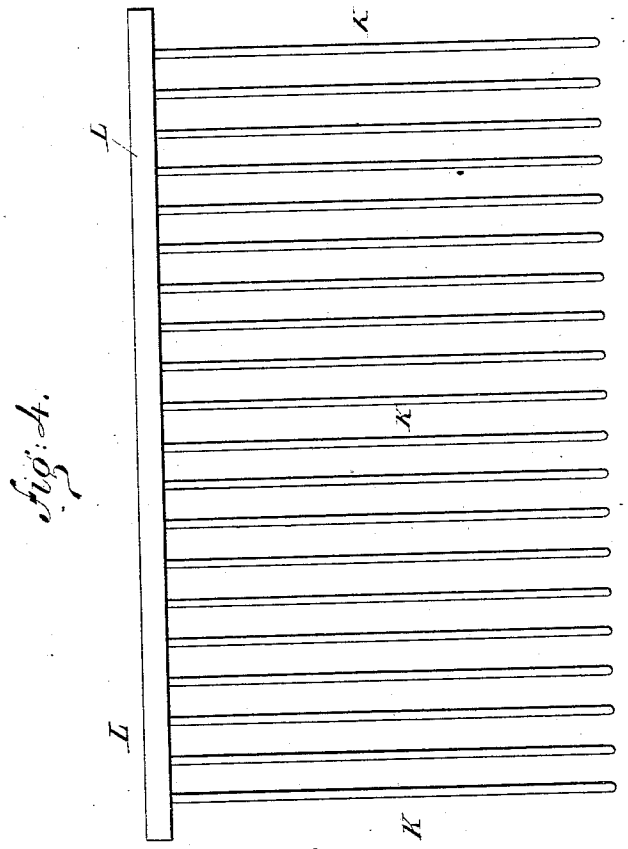


Fig. 4.

WITNESSES:

Chas. Neal.

C. Sedgwick

INVENTOR:

E. Cadigon

BY Munn & Co

ATTORNEYS.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

EDWARD CADIGON, OF ADAMS, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND ALFRED B. MOLE, OF SAME PLACE.

BEAMER.

SPECIFICATION forming part of Letters Patent No. 278,873, dated June 5, 1883.

Application filed May 2, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDWARD CADIGON, of Adams, in the county of Berkshire and State of Massachusetts, have invented a new and useful Improvement in Beamers, of which the following is a full, clear, and exact description.

This invention consists of the combination, with the perforated plate or copper of a beamer, of perforated strips of sheet metal arranged over the alternate rows of holes in the copper of ordinary use, and an adjusting device whereby the alternate rows of threads may be readily shifted for taking a lease, so that the lease-cords may be passed between the rows. The said strips are located close to the side of the copper, so that the copper and the strips can be threaded at once, and thus save the second operation of threading the harness, as in the common arrangement.

The invention also consists of a comb of metal or wooden teeth, equal in number to the vertical rows of threads in the beamer-copper, combined with the beamer-copper, as hereinafter fully described.

Reference is to be had to the accompanying drawing, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of my improved beamer with some of the strips broken out. Fig. 2 is a transverse sectional elevation of Fig. 1. Fig. 3 is a horizontal section on the line *y y* of Fig. 2, and also shows the teeth of the lease-comb; and Fig. 4 is a front elevation of the lease-comb which I use to facilitate the leasing.

A is the perforated copper as commonly used, having the perforations B for the threads.

C represents the perforated strips of sheet metal, which I arrange upon the plate A, with each alternate row of holes B and with the holes D of the said strips coinciding with the holes B of the plate A, so that the threads E may be inserted through said plate and the strips at the same time. Holes D are made larger than holes B to facilitate the threading of the beamer.

F is a bar to which the strips are attached for being shifted by the hand-wheel G and screw H, the screw being mounted in the frame I, to which plate A is attached.

J represents stud-pins projecting from the side of the plate A, with heads for guides to confine the strips close to the plate along the middle of the strips and to support them for sliding by the screw.

It will be seen that when a lease is to be taken a few turns of the screw will set the alternate threads of a row aside from the remaining ones, so that the lease-cords can be readily passed between the threads; but, for greater certainty of inserting the lease cords correctly, I employ a lease-comb consisting of teeth K attached to a head or bar, L, the same distance apart as the vertical rows of holes in the copper A, and being as long or a little longer than the height of the copper, by inserting said teeth between the separated thread a suitable distance in advance of the copper to insure the perfect separation of the threads while the lease-cords are being inserted.

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

1. The combination, with the perforated plate A of a beamer, of the strips C, arranged over the alternate horizontal rows of holes of the plate, and provided with holes coinciding with the holes of the said plate, and means for adjusting said strips thereon, substantially as and for the purpose set forth.

2. The combination, with the perforated plate A, perforated strips C, and stud-pins J, of the connecting-bar F and adjusting-screw H, substantially as specified.

3. The combination of the lease-comb K L, with the beamer-copper A and the thread-adjusting strips C, substantially as specified.

EDWARD CADIGON.

Witnesses:
MORRIS H. CADAGAN,
M. E. POTTER.