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H. N. GRISSINGER.

PEN CLAMPING DEVICE FOR PAPER RULING MACHINES.

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Fig. 1.

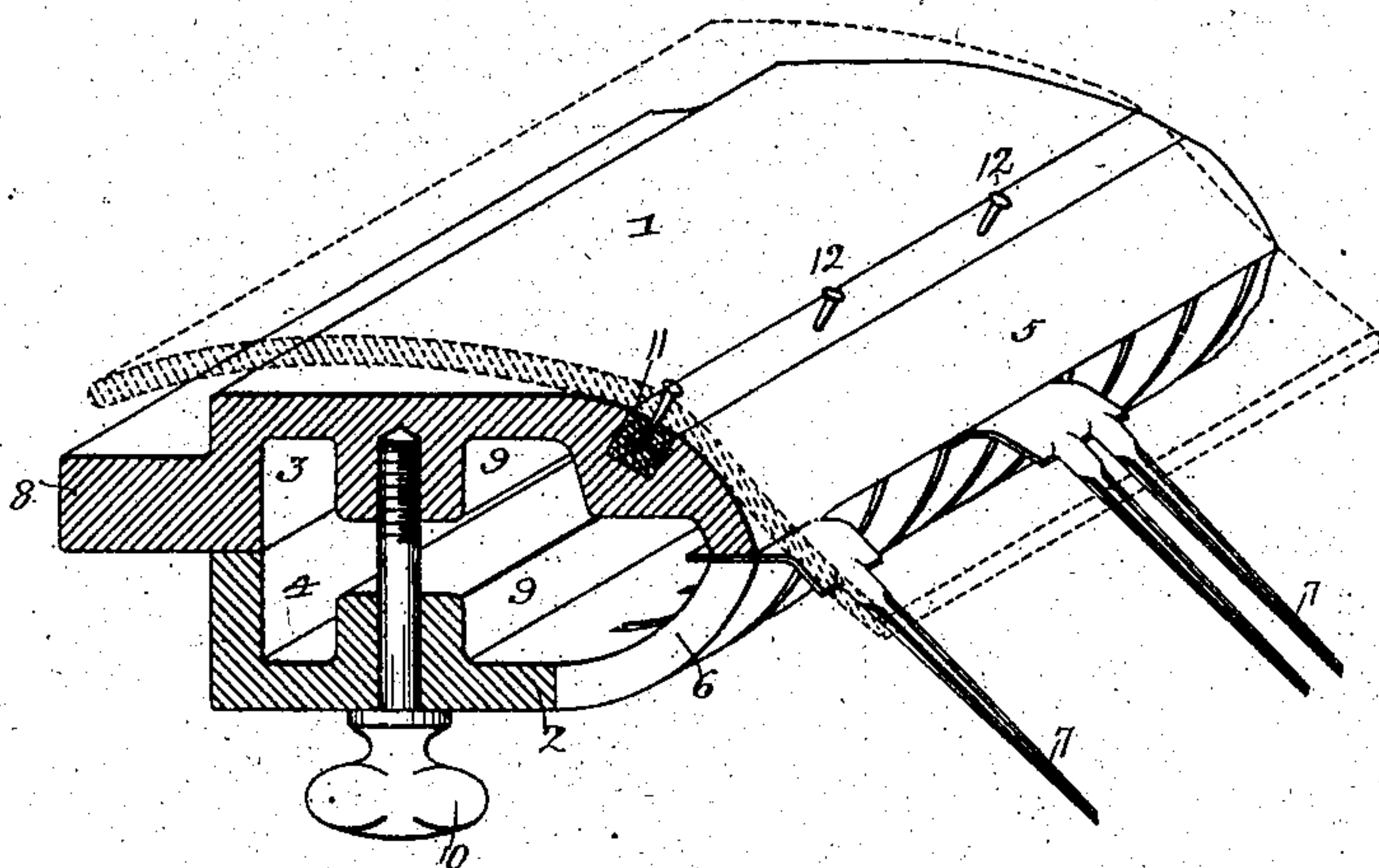
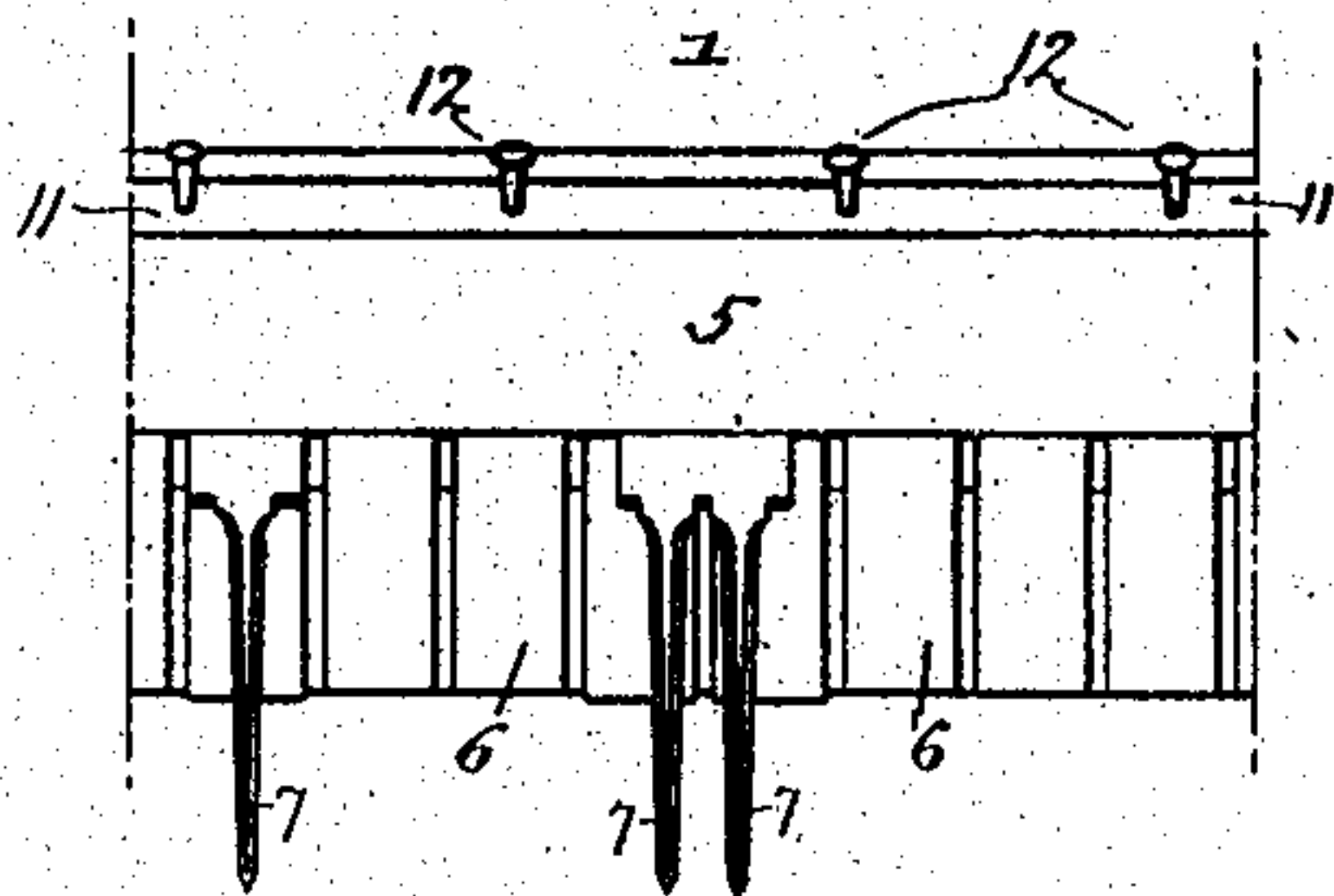


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

HOMER N. GRISSINGER, OF PHILADELPHIA, PENNSYLVANIA.

PEN-CLAMPING DEVICE FOR PAPER-RULING MACHINES.

No. 796,323.

Specification of Letters Patent.

Patented Aug. 1, 1905.

Application filed April 21, 1904. Serial No. 204,236.

To all whom it may concern:

Be it known that I, HOMER N. GRISSINGER, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Pen-Clamping Devices for Paper-Ruling Machines, of which the following is a specification.

One object of my invention is to so construct the clamp or holder for the pens of a ruling-machine as to insure the firm retention of said pens under all circumstances; and a further object is to provide a metal pen-clamp with means for retaining in position the sheet or pad of absorbent or capillary material whereby the supply of ink is conveyed to the pens. These objects I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of part of the pen-clamp of a paper-ruling machine constructed in accordance with my invention, and Fig. 2 is a front view of the same.

The pen-retaining bar or clamp consists of upper and lower members 1 and 2, each consisting of a metallic bar or shell, preferably composed of aluminium because of its lightness, these bars having at the rear abutting flanges 3 and 4 and at the front converging curved portions 5 and 6, forming jaws between which the ruling-pens 7, whether single or in groups, are clamped and firmly held, and one of the jaws—the lower one, for example—is slotted to form a series of bent fingers which are normal to the bases of the pens. The rear flange 3 of the member 1 of the clamp has a projecting bar 8, whereby it is properly supported in the ruling-machine, and each of the members of the clamp has an internal longitudinal rib or bar 9, the bar of one member of the clamp having openings for the passage of the confining-bolts 10 and the bar of the other member of the clamp having threaded openings for receiving the threaded portions of said bolts, as many of the latter being employed as the length of the bar may require. Instead of using a continuous rib, as shown, lugs may be substituted therefor, one of these lugs being located on each clamp-bar wherever a clamp-bolt is used. Upon screwing up the bolts the jaws 5 and 6 of the bar are

pressed toward each other, so as to clamp the flat bases of the ruling-pens between them. It frequently happens, however, that the bases of some of the pens or groups of pens are thicker than those of others. Hence if a pen or group of pens having a relatively thick base is located in proximity to a pen or group of pens having a relatively thin base the latter would not, if both jaws 5 and 6 were rigid, be properly clamped, as said jaws would be held apart by the relatively thicker base and would thus be prevented from obtaining a proper grip upon the thinner base. I therefore impart longitudinal flexibility to one of the jaws, preferably to the lower jaw 6, by forming transverse slots therein, so that said jaw presents a series of elastic fingers each preferably of no greater width than the base of a single pen 7. Hence that portion of the jaw which clamps and holds the base of each pen or group of pens is wholly independent of any other portion of the jaw, and consequently is not affected thereby, and because of this independence variation in the thickness of the bases of different-pens or groups of pens which may be held between the jaws of the clamp-bar cannot affect the firm retention of either of them.

The supply of ink is usually conveyed to the ruling-pens by means of a sheet or pad of absorbent or capillary material saturated with the ink and resting upon the top of the upper member 1 of the clamp-bar, and in order to retain this ink-supplying sheet or pad in its proper position in respect to the pens I recess said upper member 1 of the clamp-bar for the reception of a wooden bar or strip 11, into which can be readily driven the pins 12 which engage with the absorbent pad or strip, as shown in Fig. 1, in which said pad or strip is illustrated by dotted lines.

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

1. A penholder for paper-ruling machines comprising upper and lower members, each having front clamping-jaws and abutting rear flanges, and each having an internal longitudinal rib of a less extent of projection than the rear flange, and one or more clamping-bolts, each passing through an opening in the

ribbed portion of one member and engaging a threaded opening in the ribbed portion of the other member, substantially as specified.

2. A penholder for paper-ruling machines comprising upper and lower clamping-jaws, one of which is slotted and forms a series of bent fingers whose ends are normal to and bear upon the bases of the pens.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HOMER N. GRISSINGER.

Witnesses:

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