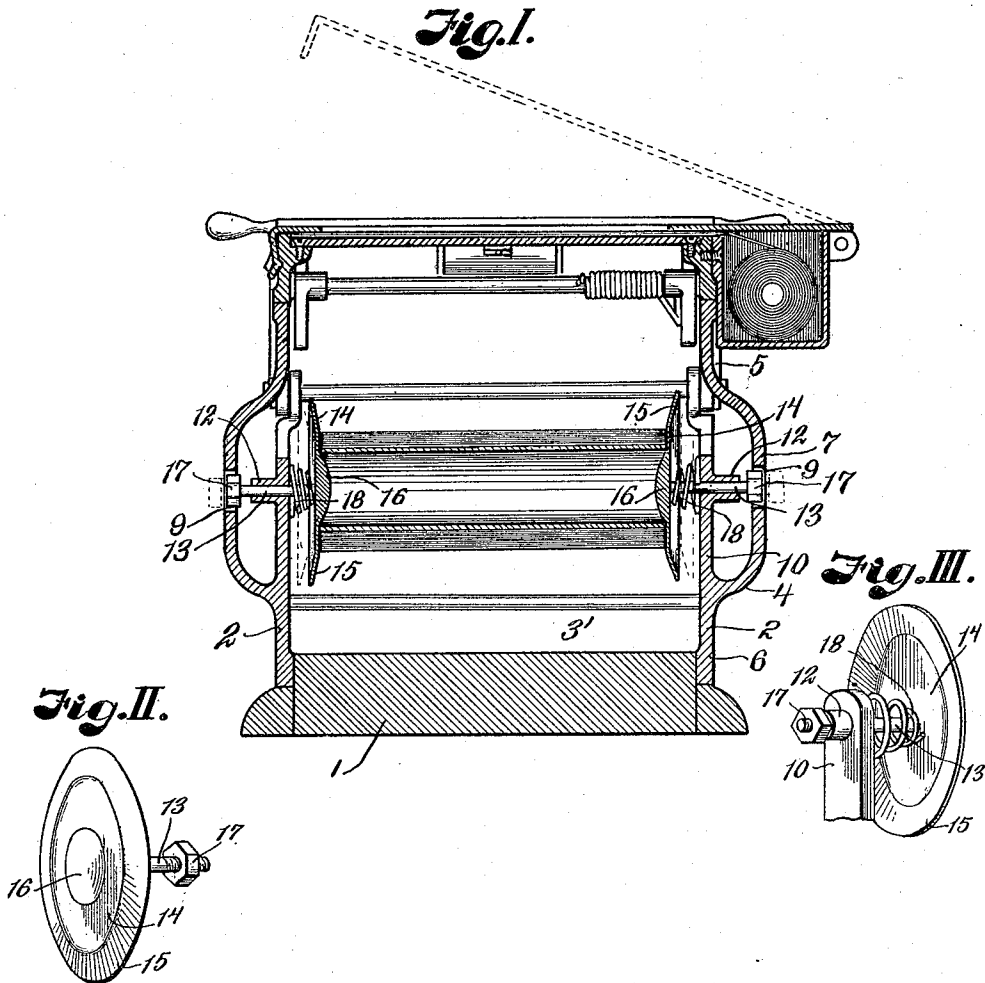


A. P. F. PICO.
 ROLL HOLDER.
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WITNESSES:
Lynn A. Robinson.
Arthur W. Capz.

INVENTOR
Albert P. F. Pico.
 BY
Arthur C. Brown.
 ATTORNEY

UNITED STATES PATENT OFFICE.

ALBERT P. F. PICO, OF KANSAS CITY, MISSOURI.

ROLL-HOLDER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBERT P. F. PICO, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Roll-Holders; and I do 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 the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to a roll holder and more particularly to a device of that character for use in autographic registers or like machines; the principal object of the invention being to provide a structure of this character whereby web or ribbon strip rolls may be supported in a manner to permit the strip to be drawn freely from the roll, but which will obviate slack that might interfere with proper registration of the strip in the machine.

In accomplishing this object I have provided improved details of structure, the preferred forms of which are illustrated in the accompanying drawings, wherein:

Figure I is a transverse, vertical section of an autographic register equipped with my improved roll holder.

Fig. II is a detail perspective view of one of the holder members.

Fig. III is a reverse view of the same.

Referring more in detail to the drawings:—

1 designates the base of the device and 2 skeleton side members of any desired construction, which are fixed to the base 1 and connected at their ends by cross rods 3; the preferred construction of the side members comprising vertical bars 4 which are bowed outwardly intermediate the top and bottom rails 5—6 to enhance the appearance of the structure and provide sockets 7 for receiving the ends of the strip mountings; the bars 4 that support the mounting members being preferably provided with apertures 9 through which the mounting shafts may project, and with spaced arms 10 for supporting said shaft.

Each of the arms 10 comprises a bearing member 12 which extends outwardly toward the adjacent rib 4 but is spaced therefrom, the bearing channel being concentric with

the aperture 9 in said rib, to permit play of a shaft bead between the end of the bearing and the rib and the withdrawal of the shaft through said aperture.

Revolubly mounted in each of the bearings 12 is a stub shaft 13, the inner end of which carries a disk 14 which is rigidly secured to the end of the shaft and is preferably dished at its edges to form an outturned peripheral flange 15; the central portion of the disk being also provided with a concave button 16 which is adapted for projection into the core of a rolled strip, as will presently be more fully described.

The outer end of the shaft 13 is threaded and carries a nut 17 which is adapted for engaging the end of the bearing 12 to limit the inward projection of the disk under tension of a spring 18, which surrounds the shaft and bears against the inner face of the arm and against the inner face of the disk to normally tension the disk inwardly against the end of a roll and hold the nut against the end of the bearing; it being apparent that the disk may be moved outwardly against the tension of the spring to seat or unseat the roll, and that when the disk is moved outwardly, the nut on the end of its shaft is projected through the opening 9 in the bowed part in the side of the machine frame. The spring 18 is preferably helical in order that it may lie flat against the arm 10 when collapsed, and allow the friction disk to occupy the least possible space in the machine.

It is apparent that when the disk is to be removed from the machine, the shaft may be moved outwardly to expose the nut at the side of the frame, and that when the nut is removed, the shaft may be drawn from its bearings, although under ordinary conditions the end of the shaft is protected by the side of the machine to prevent its being tampered with.

In using the device, assuming that the shafts 13 are mounted in the frame, as described, the rolled strip is placed in its mounting by forcing the ends of the roll against the convex faces of the disks 14, so that the disks are pushed back against the tension of their springs until the roll centers on the disks and the bosses 16 are projected into the center opening of the roll. The strip may then be used from the roll and as it is used it is drawn forwardly, revolving the roll on its mounting on the disks and their buttons 16, the buttons holding the

roll in place, but the springs being sufficiently weak to permit the roll to turn on its mounting.

When the strip has become exhausted, or
5 it is desired to replace the same, the roll is pulled from its mounting, the ends of the roll pressing against the convex bosses on the disks to push the disks outwardly against the tension of their springs and thereby per-
10 mitting the removal of the roll from between the paired mountings.

It is apparent that with my improved mounting, the roll is held tensioned to obviate a slack, and that the same tension is
15 maintained for any diameter of the strip.

It is also apparent that with this construction, the roll may be easily and quickly inserted or removed from the machine, and that the mountings themselves may be easily
20 and quickly inserted into or removed from the side frames.

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

25 1. In a roll holder, a slidably mounted supporting shaft, a disk at one end of said shaft, a knob on the face of said disk adapted for projecting into a roll core, means for limiting the inward movement of said shaft, and means for urging the same toward its
30 inward limit.

2. The combination with paired bearings,

of a roll clamp comprising a pair of shafts journaled in said bearings, a disk mounted on the inner end of each shaft and having a
35 retaining knob centrally disposed on its inner face, a nut on the outer end of each shaft, and a helical spring wound about said shaft to engage said bearing and disk, for the purpose set forth.

3. The combination with a frame, of a roll clamp comprising a pair of shafts slidably journaled in the frame, a disk mounted on the inner end of each shaft and having an
40 outturned outer edge and a central rounded retaining knob on its inner face adapted for seating within a roll core, and means for yieldingly tensioning said disks against an interposed roll.

4. The combination with paired bearings,
50 of a roll clamp comprising a pair of shafts journaled in said bearings, a disk mounted on the inner end of each shaft and having outturned outer edges and a retaining knob centrally disposed on its inner face, a nut
55 on the outer end of each shaft, and a spring wound about said shaft to engage said bearing and disk, for the purpose set forth.

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

ALBERT P. F. PICO.

Witnesses:

LYNN A. ROBINSON,
LETA E. COATS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents Washington, D. C."