(No Model.)

C. H. LONG.

PRINTING DEVICE FOR PAPER ROLL HOLDERS.

No. 596,891. Patented Jan. 4, 1898.

Fig: 1.

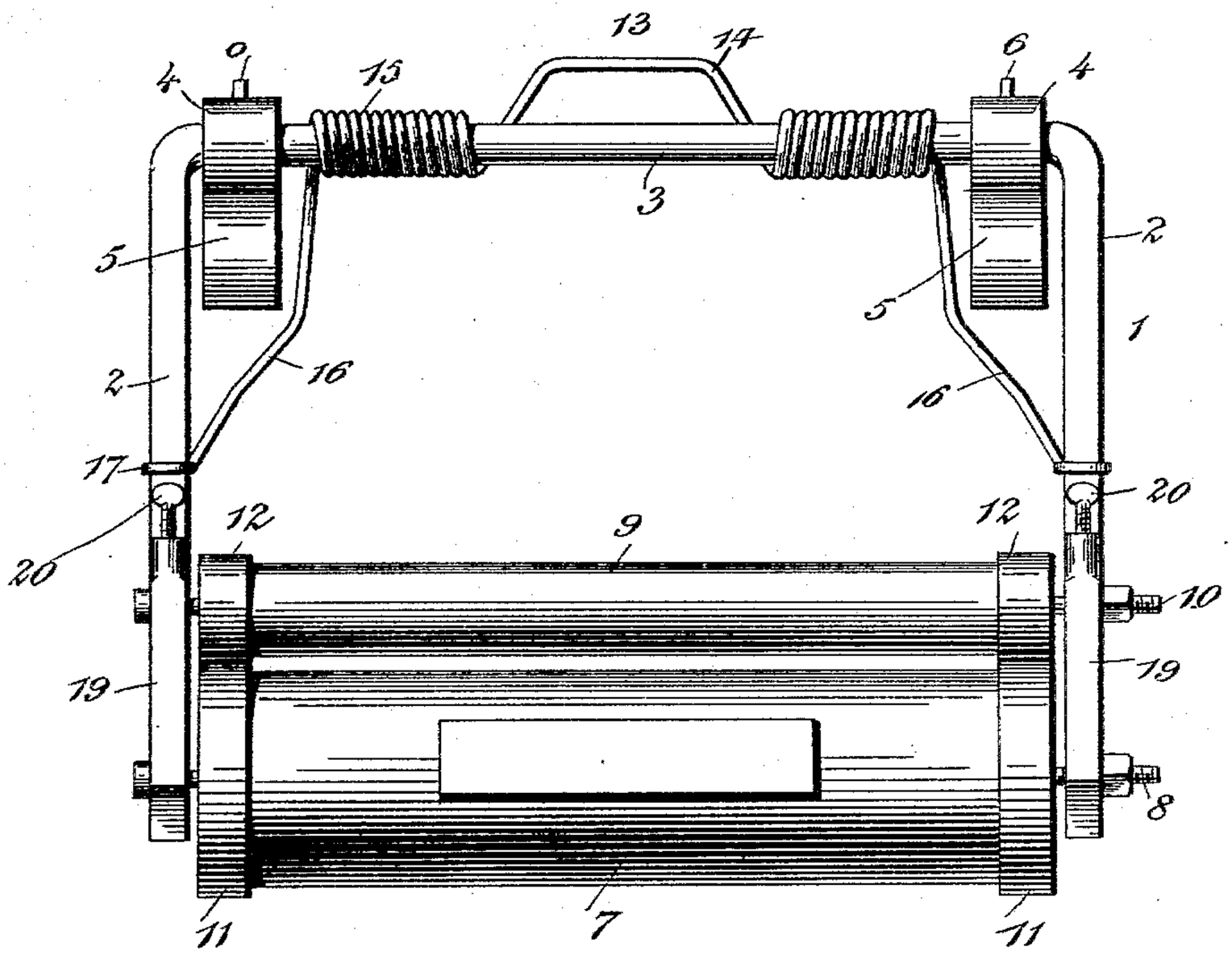
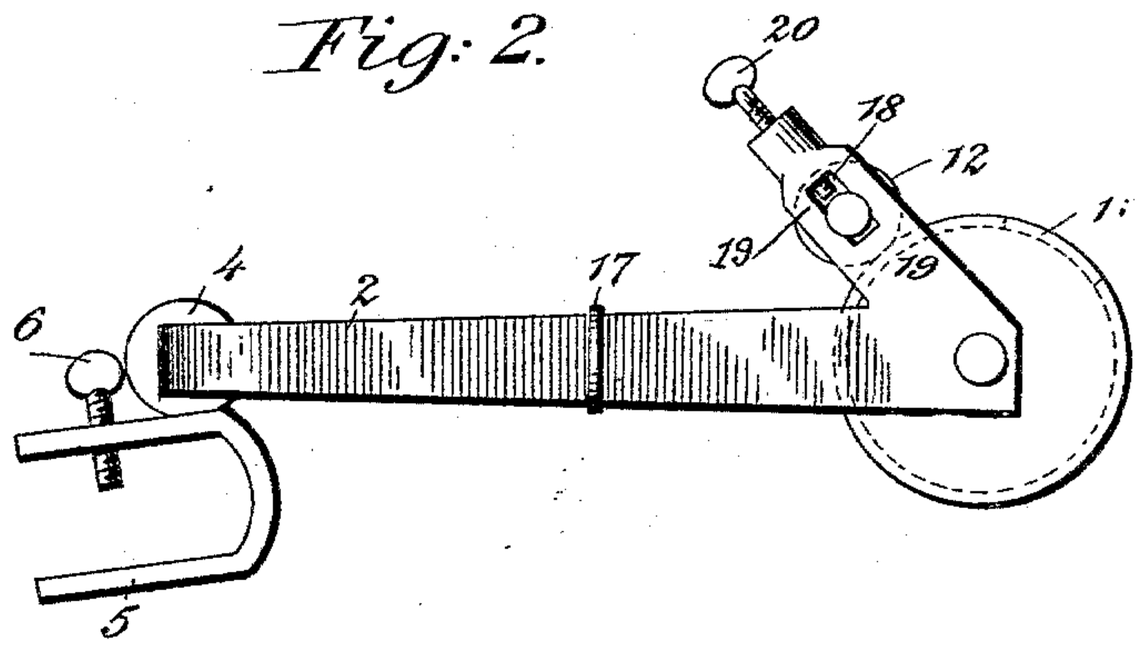


Fig: 2.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES H. LONG, OF TIPTON, IOWA.

PRINTING DEVICE FOR PAPER-ROLL HOLDERS.

SPECIFICATION forming part of Letters Patent No. 596,891, dated January 4, 1898.

Application filed April 23, 1897. Serial No. 633,472. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. LONG, a citizen of the United States, residing at Tipton, in the county of Cedar and State of Iowa, have invented a new and useful Printing Device for Paper-Roll Holders, of which the following is a specification.

The invention relates to improvements in printing devices for paper-roll holders.

The object of the present invention is to improve the construction of printing devices for paper-roll holders and to provide a simple, inexpensive, and efficient device adapted to be readily applied to the ordinary paper-roll holder and capable of printing advertising or other matter on the paper as it is unreeled for use.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is an elevation of a printing device for paper-roll holders constructed in accordance with this invention. Fig. 2 is a side view of the same.

Like numerals of reference designate corresponding parts in both figures of the drawings.

1 designates a substantially rectangular supporting-frame, comprising similar sides 2 and an upper or inner cross-bar 3, which is rounded and journaled in suitable bearings 4 of clamps 5. The clamps 5, which are provided with rigid jaws, are adapted to receive and engage the main frame of a paper-roll holder, being provided with set-screws 6 at their upper jaws for engaging the main frame, and they are provided with perforated ears to form the bearings 4, and the cross-bar 3, which is arranged in the perforated ears, serves as a pintle and hinges the frame 1 to the clamps.

A printing-roller 7, which is provided with suitable journals, is mounted at the lower or outer end of the supporting-frame 1, the journals being formed by a rod 8, which passes through the sides of the frame, being provided at one end with a head and at the other end, which is threaded, with a nut. The printing-roller, which is provided on its engaging face or periphery with suitable type, frictionally meshes or engages with an inking-roll 9, which is mounted on a rod 10, similar to the rod 8, before described. The rolls 7 and 9 are provided at their ends with annular enlargements 11 and 12, forming friction-wheels or bearing-faces, whereby when the printing-roller is rotated through contact with the paper the inking-roll will also be rotated to supply the type with ink.

The printing-roll is held in contact with the roll of paper of a holder by a spring 13, constructed of a single piece of resilient wire, and comprising a central loop 14, located at the center of the cross-bar of the supporting-frame 1 in position for engaging the main frame of a holder, reversely-disposed spring-coils 15, located at the ends of the loop 14 and disposed on the cross-bar 3, and the spring-arms 16, extending from the outer ends of the coils and terminating in laterally-disposed hooks 17, which engage over the upper or outer edges of the sides 2 of the supporting-frame. This spring 13 holds the printing-roll in yielding engagement with the roll of paper and produces sufficient pressure to produce a perfect impression of the type.

The inking-roll is capable of adjustment, the rod 10 being arranged in slots 18 of arms 19, which extend upward from the sides of the frame 1 at an acute angle to the same. The upper ends of the arms 19 are provided with threaded longitudinal openings receiving set-screws 20, which engage the ends of the rod 10 and are adapted to force the same downward in the slots 18.

It will be seen that the printing device is exceedingly simple and inexpensive in construction, that it is adapted to be readily applied to any ordinary paper-roll holder, and that it yieldingly engages the roll of paper with sufficient pressure to produce a perfect impression of the type, so that an advertisement or other matter may be properly printed on the paper as it is unreeled from the roll.

What I claim is—

1. A printing device for paper-roll holders comprising a pair of clamps adapted to engage the frame of a paper-roll holder and provided with perforated ears, a substantially rectangular frame journaled in the perforated ears, whereby it is hinged to a paper-roll holder, a spring composed of spring-coils

disposed on the cross-bar of the frame, a central loop connecting the spring-coils and arranged to engage a paper-roll holder, and the spring-arms extending from the coils and engaging the sides of the rectangular frame, and the printing and inking rolls carried by the latter, substantially as described.

2. A printing device for paper-roll holders comprising a substantially rectangular supporting-frame provided with angularly-disposed arms, the latter being slotted and having threaded openings communicating therewith, clamps adapted to engage a paper-roll holder and provided with bearings receiving the supporting-frame, a spring engaging the supporting-frame and adapted to force the same downward, an inking-roll having a rod arranged in the slots of said arms, screws mounted in the threaded openings of the latter and engaging the rod, and a printing-roll journaled on the frame and arranged contiguous to the inking-roll, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES H. LONG.

Witnesses:

ROBT. WRIGHT,

SAM S. WRIGHT.