

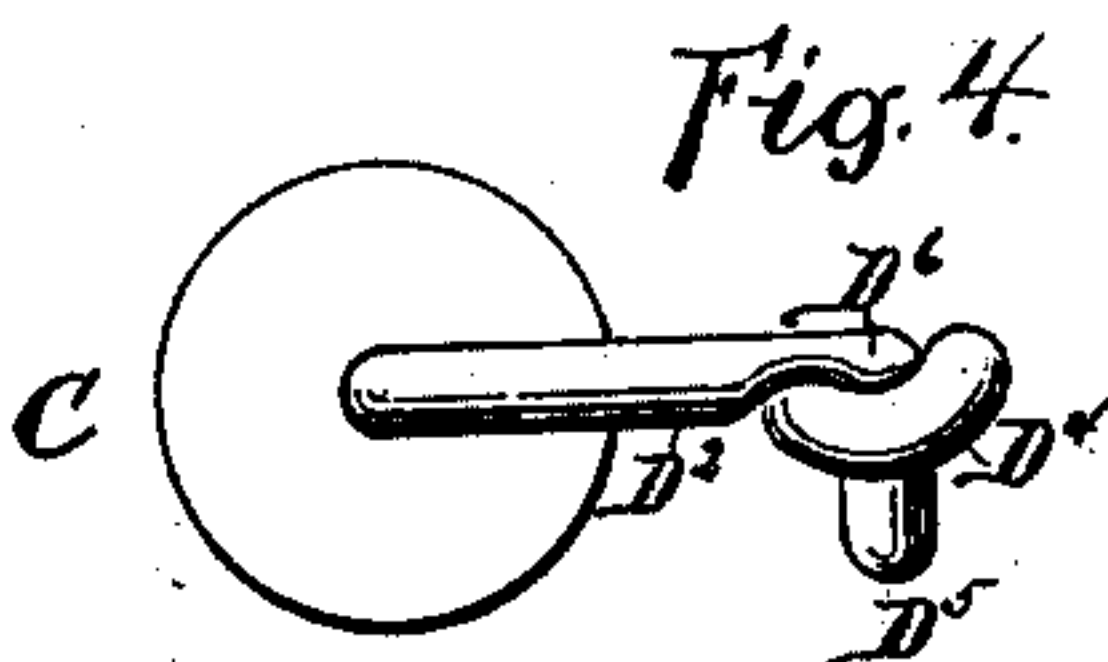
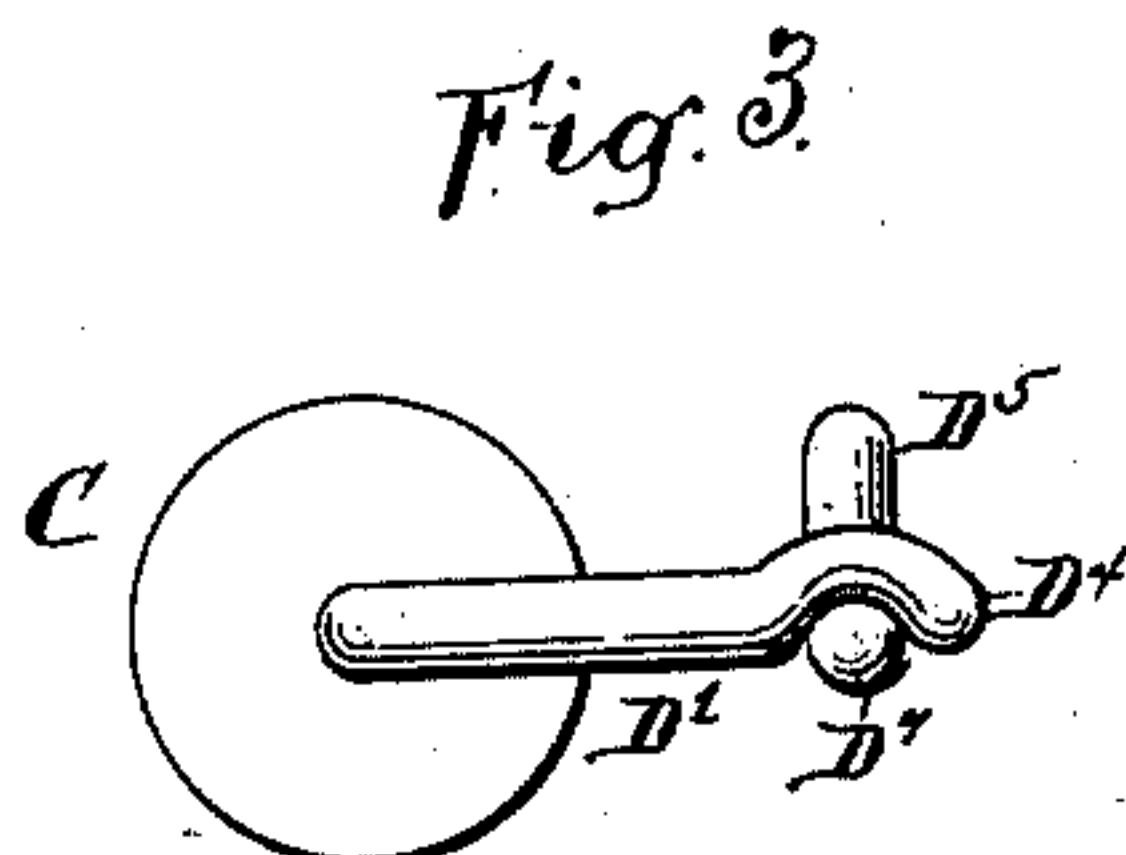
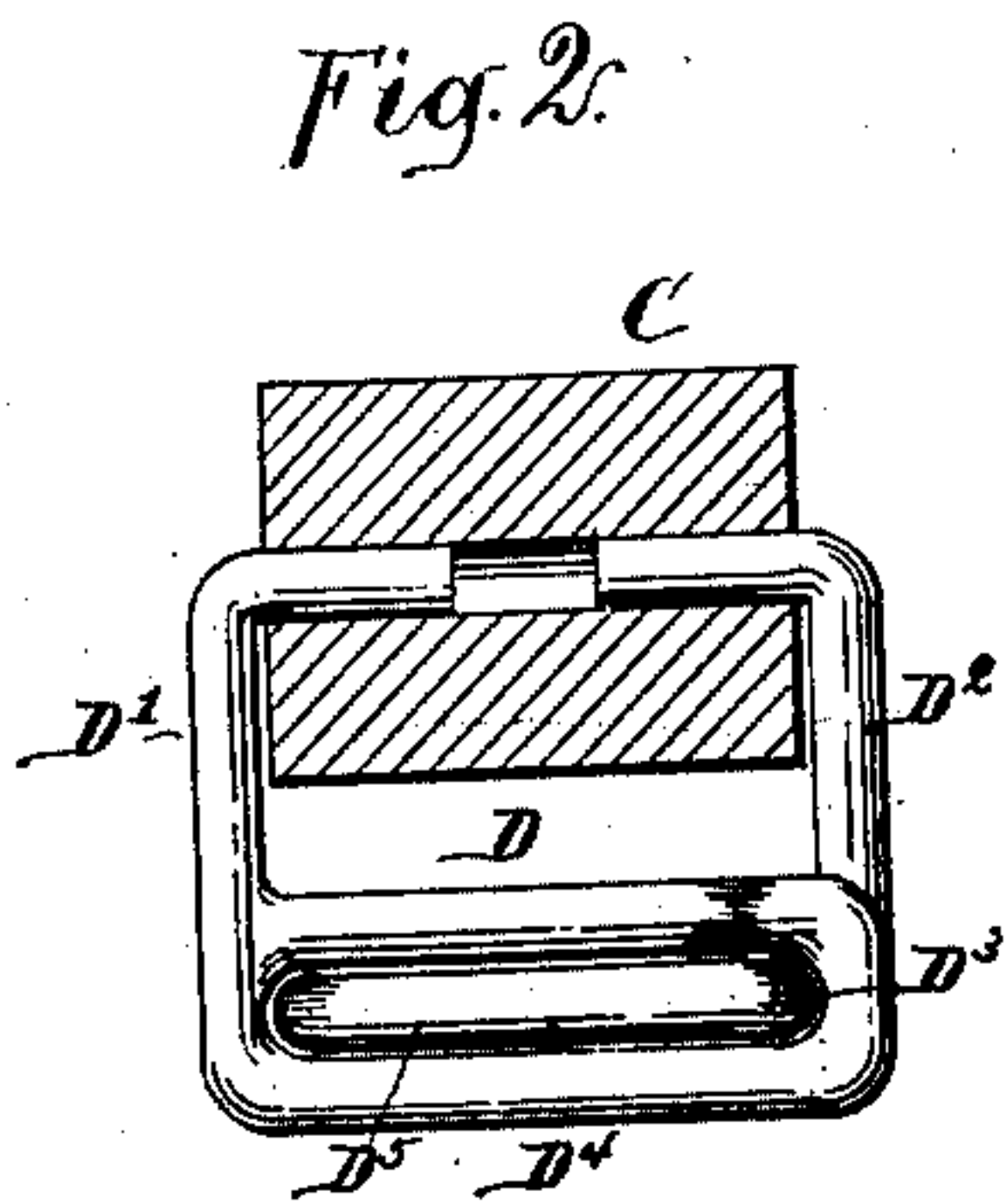
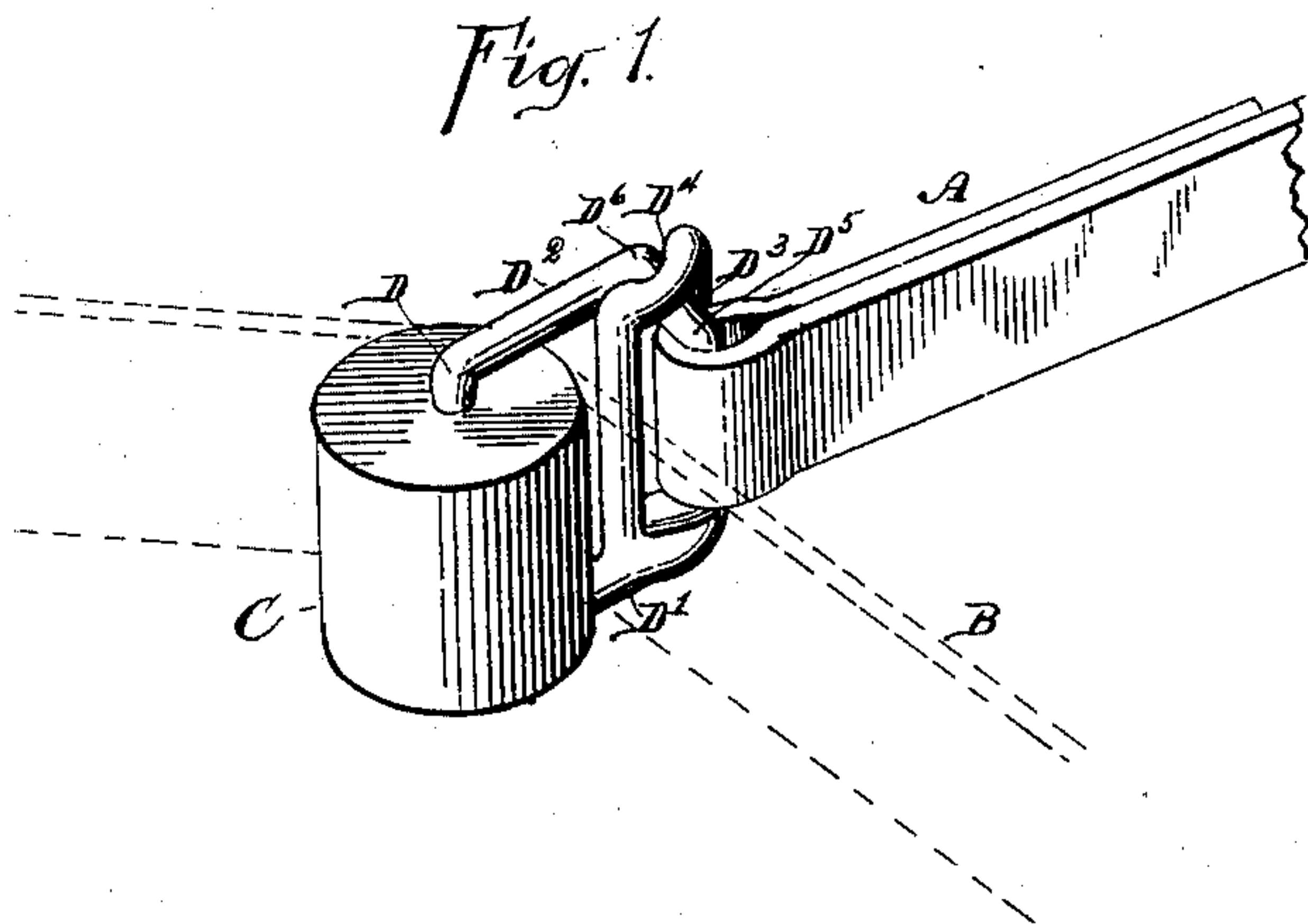
No. 671,048.

Patented Apr. 2, 1901.

R. J. GOERNER.  
LINE ROLLER.

(Application filed Aug. 27, 1900.)

(No Model.)



Witnesses.  
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Harry Swigart

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Atty.

# UNITED STATES PATENT OFFICE.

RUDOLPH J. GOERNER, OF ST. LOUIS, MISSOURI.

## LINE-ROLLER.

SPECIFICATION forming part of Letters Patent No. 671,048, dated April 2, 1901.

Application filed August 27, 1900. Serial No. 28,162. (No model.)

*To all whom it may concern:*

Be it known that I, RUDOLPH J. GOERNER, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Line-Rollers; and I 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.

This invention relates to harness, and has for its object to improve the construction of that part of a harness known as a "line-roller," with a view to greater simplicity, cheapness, and efficiency.

The nature of the invention will clearly appear from the description and claims following, reference being had to the accompanying drawings, in which—

Figure 1 is a view in perspective of a device embodying my invention as in use. Fig. 2 is a top view of the same, the roller being in section. Fig. 3 is a side view as seen from the left of Fig. 2. Fig. 4 is a similar view of the opposite side.

In the drawings, A designates a strap connecting with the hame or terret, (not shown,) and B is the line or rein. C is a small roller, preferably of wood and a little longer than the width of the rein. This is provided with an axial hole to take the lateral studs of the stirrup D, which serve as bearings therefor. The stirrup is composed of two parts D' and D<sup>2</sup>, which interlock a little distance from the roll. One of the parts has a slot at D<sup>3</sup>, central to a lateral wing D<sup>4</sup>. Coinciding with this slot, the other member is offset at D<sup>5</sup>, with shoulders at D<sup>6</sup> and D<sup>7</sup> to engage the ends of the slotted portion. The offset forms a loop to take the strap A, and when the strap is so attached no other fastening is required to hold the parts of the stirrup together.

The construction is extremely simple, as will be seen. In practice the parts are preferably made of malleable iron, and their form is such that they may be easily and cheaply molded. As no machining is required on them and no fitting, the article is very inexpensive to manufacture. It is possible also to form the stirrup out of wire; but malleable iron is preferred as being relatively stiffer and capable of being more neatly joined where the parts meet than if bent out of wire.

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

1. A line-roller, comprising a roller and a stirrup consisting of two members, each having an inwardly-projecting stud to form a bearing for the roller, and one of said members having a lateral wing with a slot therein, and the other with an offset to project through said slot and serve for the attachment of a strap, substantially as described.

2. In a line-roller, the combination with a roller provided with an axial hole, of a stirrup composed of two interlocking members, each having an inwardly-projecting stud to form bearings for the roll, and one of said members having an inwardly-projecting wing with a slot therein, the other having an offset in the nature of a loop coinciding with said slot, and adapted to project through said slot to lock the parts in engagement, with shoulders abutting on the ends of the wing, substantially as set forth.

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

RUDOLPH J. GOERNER.

Witnesses:

C. D. IVES,  
J. F. GROAT.