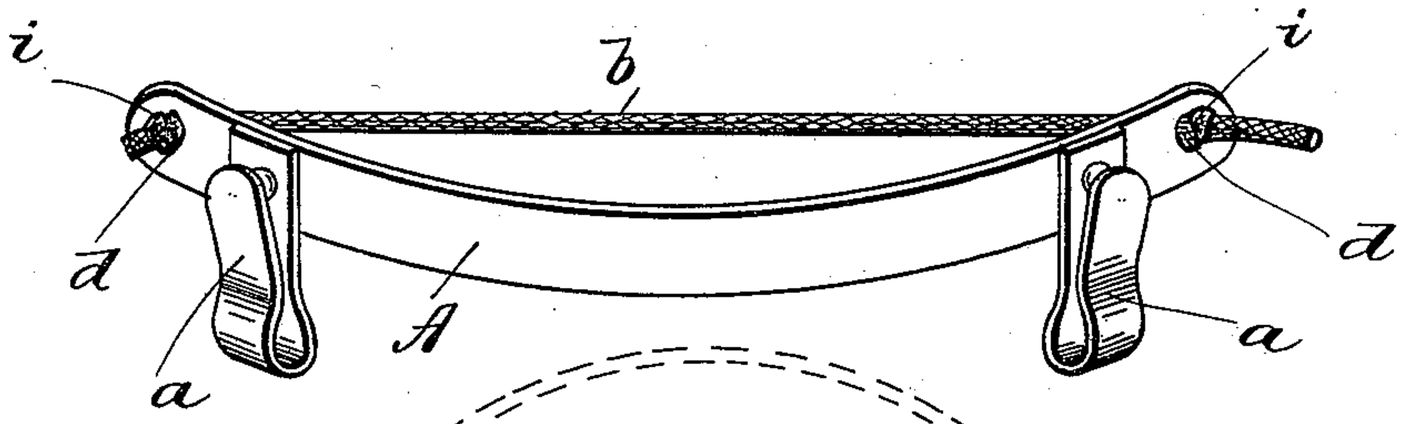
(No Model.)

J. E. NEWTON.

BICYCLE TROUSERS PROTECTOR.

No. 562,150. Patented June 16, 1896.

Fig. 1.



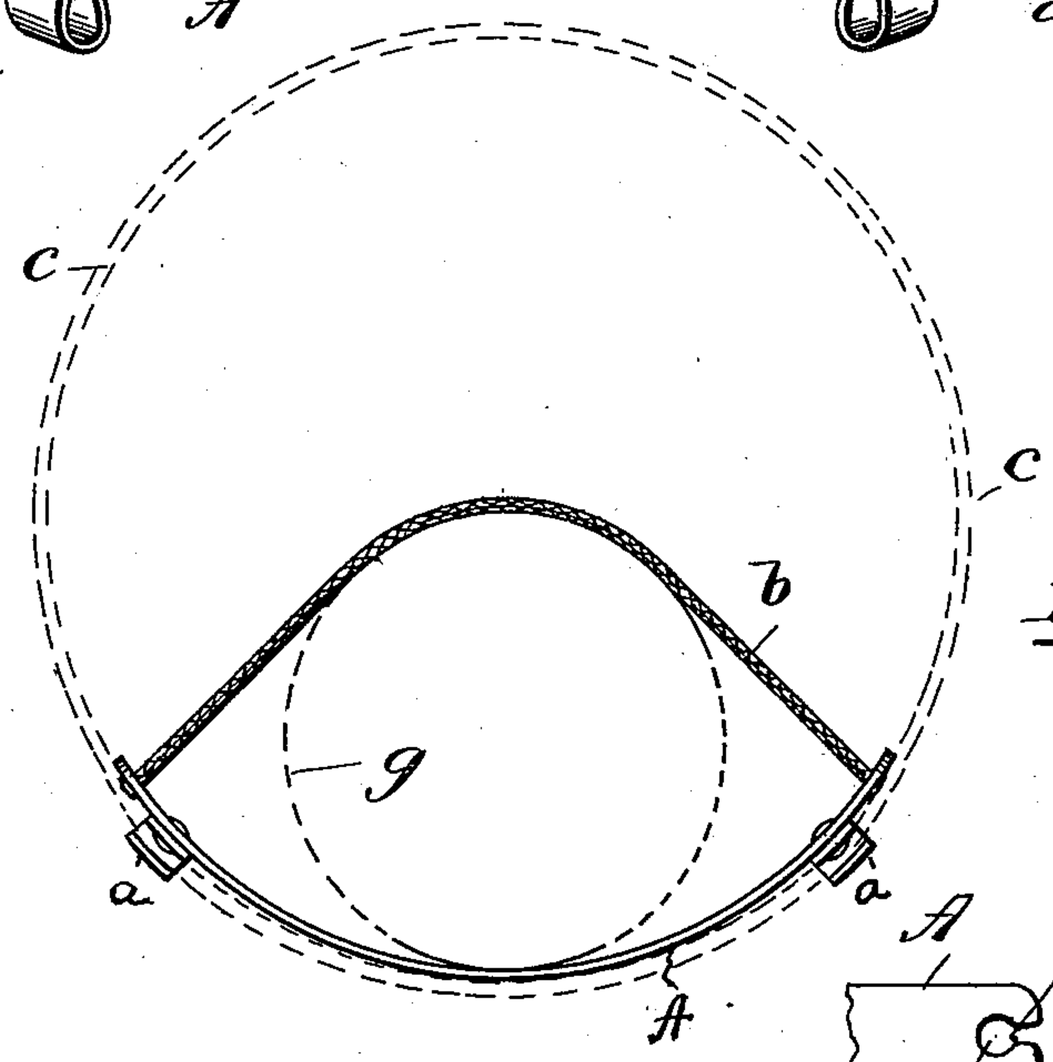
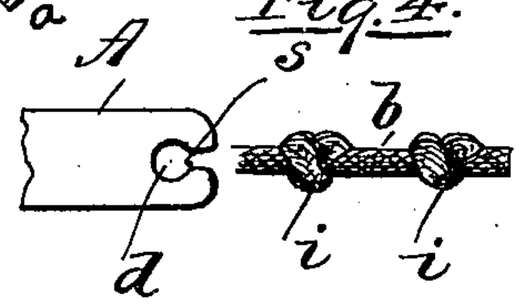


Fig. 2.

Fig. 4.



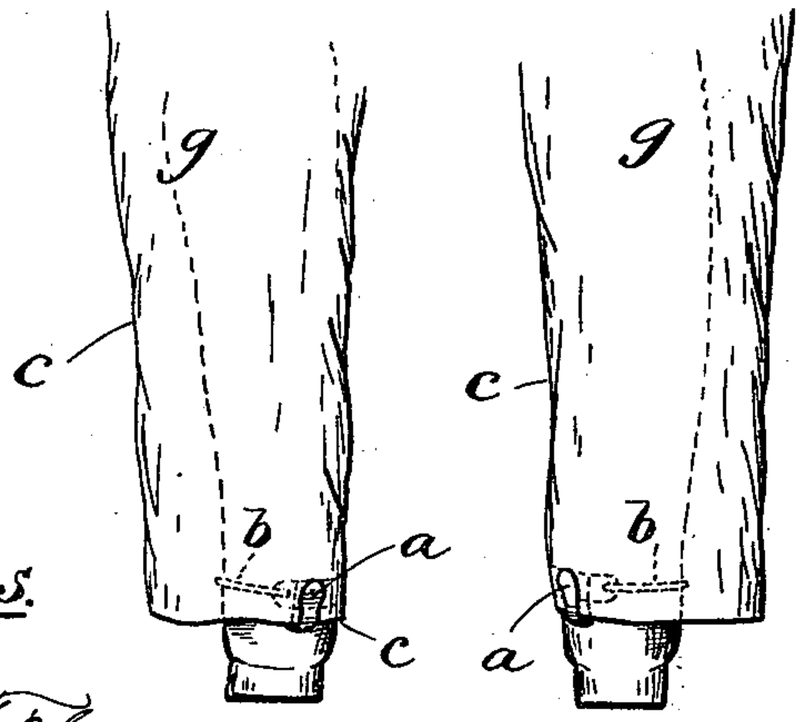


Fig. 3.

Witnesses.

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UNITED STATES PATENT OFFICE.

JAMES EDWARD NEWTON, OF FALL RIVER, MASSACHUSETTS.

BICYCLE TROUSERS-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 562,150, dated June 16, 1896.

Application filed April 9, 1896. Serial No. 586,782. (No model.)

To all whom it may concern:

Be it known that I, JAMES EDWARD NEWTON, of Fall River, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Bicycle Trousers-Protectors; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of bicycle devices designed to keep riders' trousers-legs from being caught by the pedal or other parts of the running mechanism.

It is fully explained and illustrated in this specification and the accompanying drawings.

Figure 1 is a perspective view of one of the protectors or safety-clamps. Fig. 2 is a top view showing the position of the protector when in use. Fig. 3 is a back elevation of the lower portion of the trousers-legs with the protectors in position. Fig. 4 shows a modification of the fastening of the protector.

The construction and application of the invention are as follows:

In Fig. 1 A is a strip of sheet-steel of proper stiffness and resiliency, and *a a* are two spring-clips fastened by rivets or otherwise to the strip A, one near each end of the strip. These clips *a* open on the outer side of the strip A and are made to receive the lower edge of the trousers *c* and hold it by spring-pressure, so that it can be easily put on or drawn out. Holes *d d* are made one at each end of the strip A to receive an elastic cord *b*, which is passed through the holes and knotted on the other side, or a slot *s* can be cut in to the hole at one end and the knotted cord *b* slipped into the hole through the slot *s*. A small spiral spring can be used in place of the cord and its ends bent into hook form, so as to be readily caught in the holes. The form of the clips *a a* may be modified so long as they serve to receive the edge of the trousers-leg readily and hold it securely. If the cord *b* or spiral spring is permanently attached to the strip at both ends, the device may be put on over the foot, but if secured only at one end the cord is readily put on the other side of the ankle and the end of the cord caught in the slot *s*, so as to inclose the ankle between the cord and strip. The edge of the trousers on the inner side of the leg *g*, Fig. 3, is then slipped down into the clips *a a* and the cord on the other side of the ankle will hold the strip up close to the leg and keep the trousers *c* on the inside of the leg clear of the pedal and so that it cannot be blown around in front or back and caught in any way. (See Fig. 3.) At the same time the trousers-leg on the front, back, and outer side will hang in a perfectly natural manner and avoid the trouble of gathering up the whole trousers-leg close around the ankle, as has been done with springs, which produces an uncomfortable feeling, creases the trousers, and makes them liable to wear through the folds of the creases. It is not necessary to remove it on account of its looks if one leave the bicycle for a short time to enter a dwelling. It is simple and inexpensive to make, and from its shape is easily carried in the pocket when not in use.

Having thus described my improved bicycle trousers-protector, I claim as my invention and desire to secure by Letters Patent—

1. A new article of manufacture, a trousers-leg protector for bicyclists, consisting of a springy strip of steel having clips attached thereto to receive and hold the lower edge of the trousers-leg, an elastic or resilient member attached to said strip to hold it close to the leg on one side only, substantially as described.

2. In a bicycle trousers-leg protector the combination of a strip of resilient metal forming an arc of a circle, with two or more devices attached thereto to hold the lower edge of one side of the trousers-leg, an elastic member attached to said strip to pass on the other side of the ankle to hold the strip close thereto, substantially as described.

In testimony whereof I have hereunto set my hand this 7th day of April, A. D. 1896.

JAMES EDWARD NEWTON.

In presence of—
BENJ. ARNOLD,
JAMES E. ARNOLD.