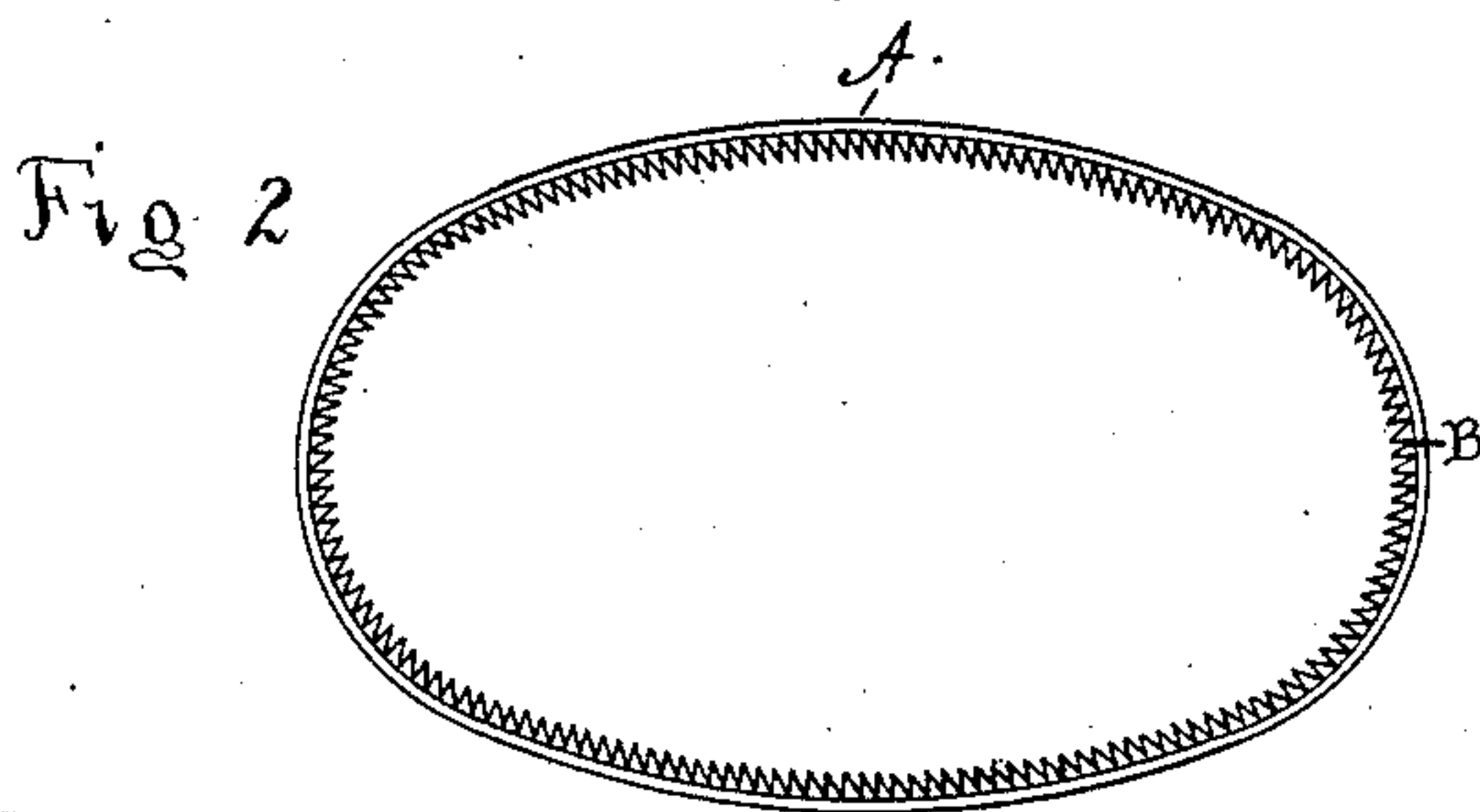
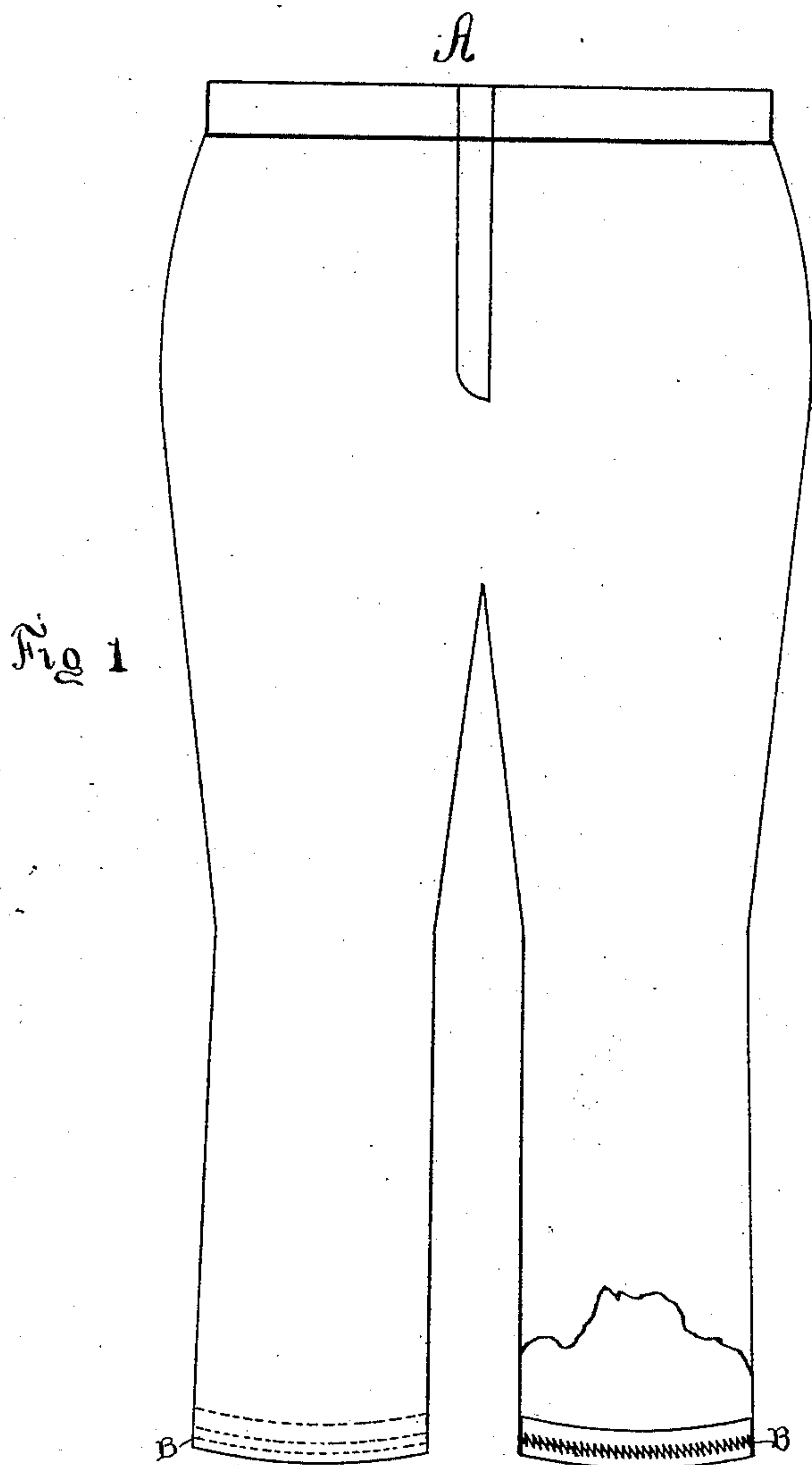


(No Model.)

C. SANDFORD.
PANTALOONS PROTECTOR.

No. 354,243.

Patented Dec. 14, 1886.



Witnesses

Alfred B. Watson.
Fred L. Warner.

Inventor

Charles Sanford
By John English atty.

UNITED STATES PATENT OFFICE.

CHARLES SANDFORD, OF PATERSON, NEW JERSEY.

PANTALOON-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 354,243, dated December 14, 1886.

Application filed June 7, 1886. Serial No. 204,310. (No model.)

To all whom it may concern:

Be it known that I, CHARLES SANDFORD, a citizen of the United States, residing at Paterson, Passaic county, State of New Jersey, have invented a new and useful Improvement in Devices for Protecting Pants, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

Heretofore a narrow strip of rubber cloth sewed on the inner rear surface of the legs of pants near the bottom of the same has been resorted to as a means of protecting the bottom of the legs of pants from excessive wear and early fracture. This strip of cloth so sewed to the pants while it was intended to protect the rear portion only of the legs of the pants utterly failed to give such protection, for the reason that the stitches by which the cloth was secured to the pants being subjected to the continued rub and chafe from the boots or shoes of the wearer soon gave way, leaving the strip of cloth unsupported to fall and dangle at the heels of the wearer, to his very great inconvenience.

The object of my invention is to provide a simple, cheap, and reliable means for protecting the bottom of the legs of pants, whereby the entire lower surface of the leg is protected from wear, grease, blacking, &c. I attain this object by the device illustrated in the accompanying drawings, which will be hereinafter explained and claimed, in which—

Figure 1 shows in elevation a pair of pants having my invention thereon, in which figure a portion of cloth from one leg is removed; and Fig. 2 is an enlarged plan of the same.

A represents a pair of pants or trousers of any suitable size or shape, on the inner lower surfaces of the legs of which pants or trousers I arrange and secure a helical spring or protector, B. This spring or protector B, I sew or otherwise secure on and around the entire inner surface of the legs of the pants or trousers and just high enough above the bottom of the same to escape notice from the outside. The stitches by which the spring-protector is secured to the inner lower surface of the pants

or trousers A are taken over the different coils of the protector against the pants, which secures the stitches against chafe from the boots or shoes of the wearer, and removes all danger of the protector becoming loose, leaving its position, &c.

It will be seen that by the use of my invention the legs of the pants or trousers are amply protected against grease, blacking, &c., from the boots or shoes of the wearer, also from excessive wear and early fracture, as a consequence of such wear, by the continual rub and chafe of the pants or trousers on and against the shoes, &c., of the wearer, as heretofore, without the use of my invention.

My invention, which also preserves the shape of the legs of the pants or trousers when secured thereto, being elastic, may be made of any suitable form, as cylindrical, square, oval, &c., in cross-section, and of any suitable materials, as iron, brass, copper, steel, &c., but preferably of brass wire plated or covered with nickel, the brass being elastic, while the nickel covering of the brass will prevent the brass from being rubbed off on the boots or shoes of the wearer.

My invention is cheap and easily applied.

My invention does not include protectors formed by iron plates that are vertically arranged on elastic bands; nor does it include ear-muffs having a spiral spring surrounding its opening, and I do not wish to be understood as claiming such.

Having described my invention and its use, I claim as new and desire to secure by Letters Patent—

The combination of the pantaloons A and helical spring-protector B, secured by means of stitches that pass over those parts only of the coils of the protector that lie next to the inner lower surfaces of the legs of the pants, for protecting the pantaloons from wear, grease, and blacking, substantially as described.

CHARLES SANDFORD.

Witnesses:

THEODORE Y. KINNE,
JOHN INGLIS.