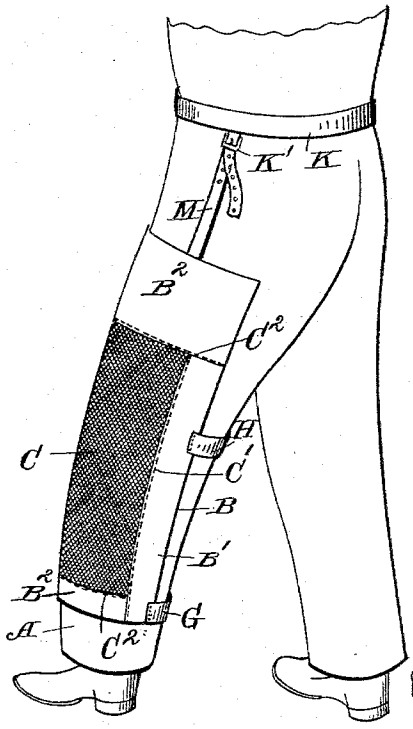
(No Model.)

E. A. GRAY.

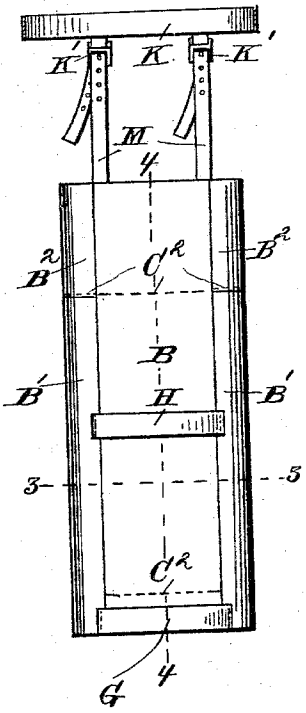
LEG SHIELD.

No. 589,562. Patented Sept. 7, 1897.

-FIG. I-



-FIG. II-



-FIG. III-

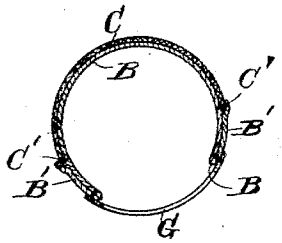
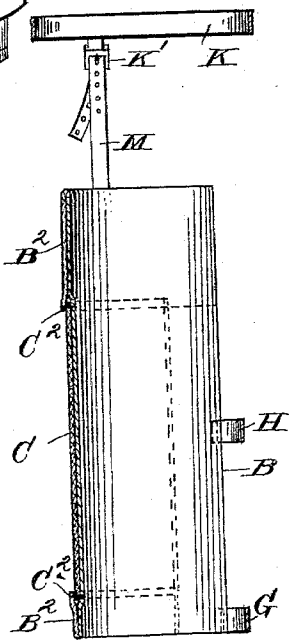


FIG. IV



WITNESSES:

J. C. Turner

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UNITED STATES PATENT OFFICE.

EDWARD A. GRAY, OF COLLINWOOD, OHIO, ASSIGNOR TO ADELBERT N. RUSSEL AND RALPH C. SHEPARD, OF SAME PLACE.

LEG-SHIELD.

SPECIFICATION forming part of Letters Patent No. 589,562, dated September 7, 1897.

Application filed September 25, 1896. Serial No. 607,000. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. GRAY, of Collinwood, Cuyahoga county, Ohio, have invented certain new and useful Improvements in Leg-Shields for Firemen; 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 pertains to make and use the same.

My invention relates to a leg-shield for a locomotive-fireman, the object being to shield the fireman's left leg in firing and protect his trousers or overalls.

With this object in view and to the end of rendering the device simple and durable my invention consists in certain features of construction and combinations of parts, hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure I shows my improved leg-shield in position upon the left leg of a fireman. Fig. II is a rear side elevation of the shield. Fig. III is a section on line 3 3, Fig. II. Fig. IV is a section on line 4 4, Fig. II.

Referring to the drawings, A designates the trousers upon the left leg of a fireman and provided with my improved shield that comprises, preferably, an apron B, provided with means for holding the same to the leg and with other means for suspending it from the fireman's body. Apron B is made large enough to cover the greater portion of the forward and left-hand sides of the leg. Apron B forms the rear face of the shield, and is made, preferably, of a single piece of canvas or duck.

To the forward or outer side of the central portion of apron B is suitably attached a sheet C of asbestos cloth capable of resisting fire or heat, and said heat-resisting sheet is large enough to shield the knee and adjacent portions of the leg of the fireman. Sheet C is preferably stitched or sewed to apron B. Said apron, at the upwardly and downwardly extending side edges of sheet C, is folded forwardly, as at B′, and somewhat overlaps the forward or outer side of said sheet C, that is sewed or stitched, as at C′, to said overlapping portions B′ and main or rear portions of the apron. The upper end and lower end of apron B are folded forwardly, as at B^2, somewhat over the forward or outer side of the upper end and lower end, respectively, of the heat-resisting sheet C, and said ends of sheet C are stitched or sewed, as at C^2, to the overlapping portions B^2 and rear or main portions of the apron.

The means employed for holding the shield in position against the fireman's leg consists, preferably, of two bands or straps G and H, arranged to extend around the rear side of the leg and suitably attached to apron B at the different side edges, respectively, of the apron. Band G is attached to the lower end of the apron and band H is attached at or near the central portion of the apron. Apron B is provided with a belt K, designed to encircle the body of the fireman, and the apron at its upper end is provided with any suitable number of straps M, arranged to engage buckles K′, secured to the belt and instrumental in suspending the shield from the belt.

The means employed for suspending the shield from the fireman's body accommodates a vertical adjustment of the shield, and thereby renders the shield readily applicable to legs having different lengths, respectively.

My improved shield, it will be observed, is very durable, and not only protects the trousers of the fireman, but affords him great relief in shielding his left leg from the fire.

What I claim is—

A leg-shield for a locomotive fireman, consisting of the flexible apron forming the rear face of the shield, said apron being folded upon itself at the side and end edges thereof; the asbestos or fireproof sheet constituting the front and major portion of the face of the shield and stitched or sewed to the said folded or overlapping portions and to the main or rear portion of the apron; the bands or straps secured to the vertical edges of the apron and passing around the rear portion of the leg, and the belt and straps for suspending and accommodating the vertical adjustment of the shield from the fireman's body, substantially as shown and described.

In testimony whereof I sign this specification, in the presence of two witnesses, this 15th day of September, 1896.

EDWARD A. GRAY.

Witnesses:
C. H. DORER,
ELLA E. TILDEN.