

No. 620,140.

Patented Feb. 28, 1899.

A. J. JACKSON.
SUSPENDERS.

(Application filed Mar. 24, 1898.)

(No Model.)

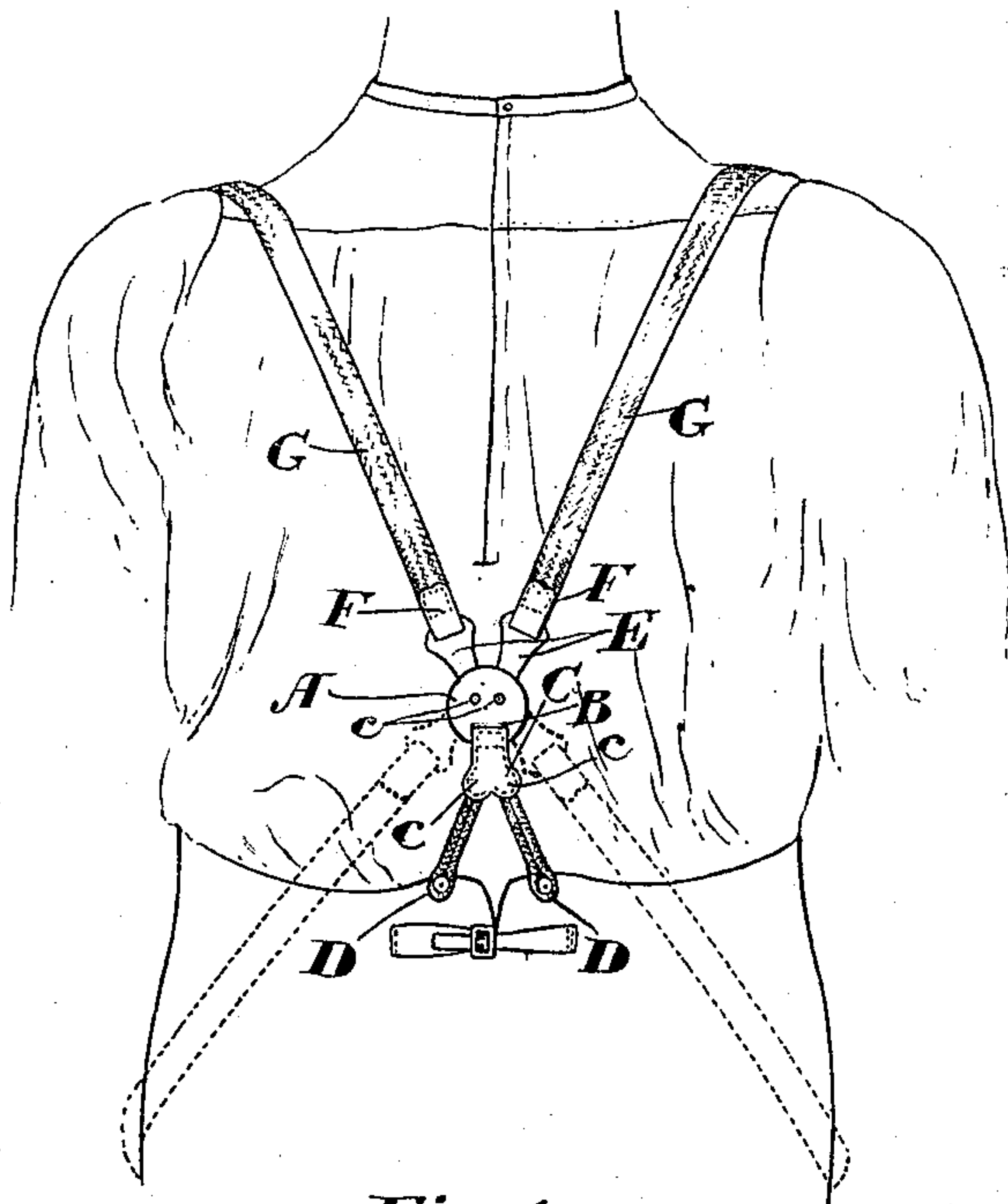


Fig. 1.

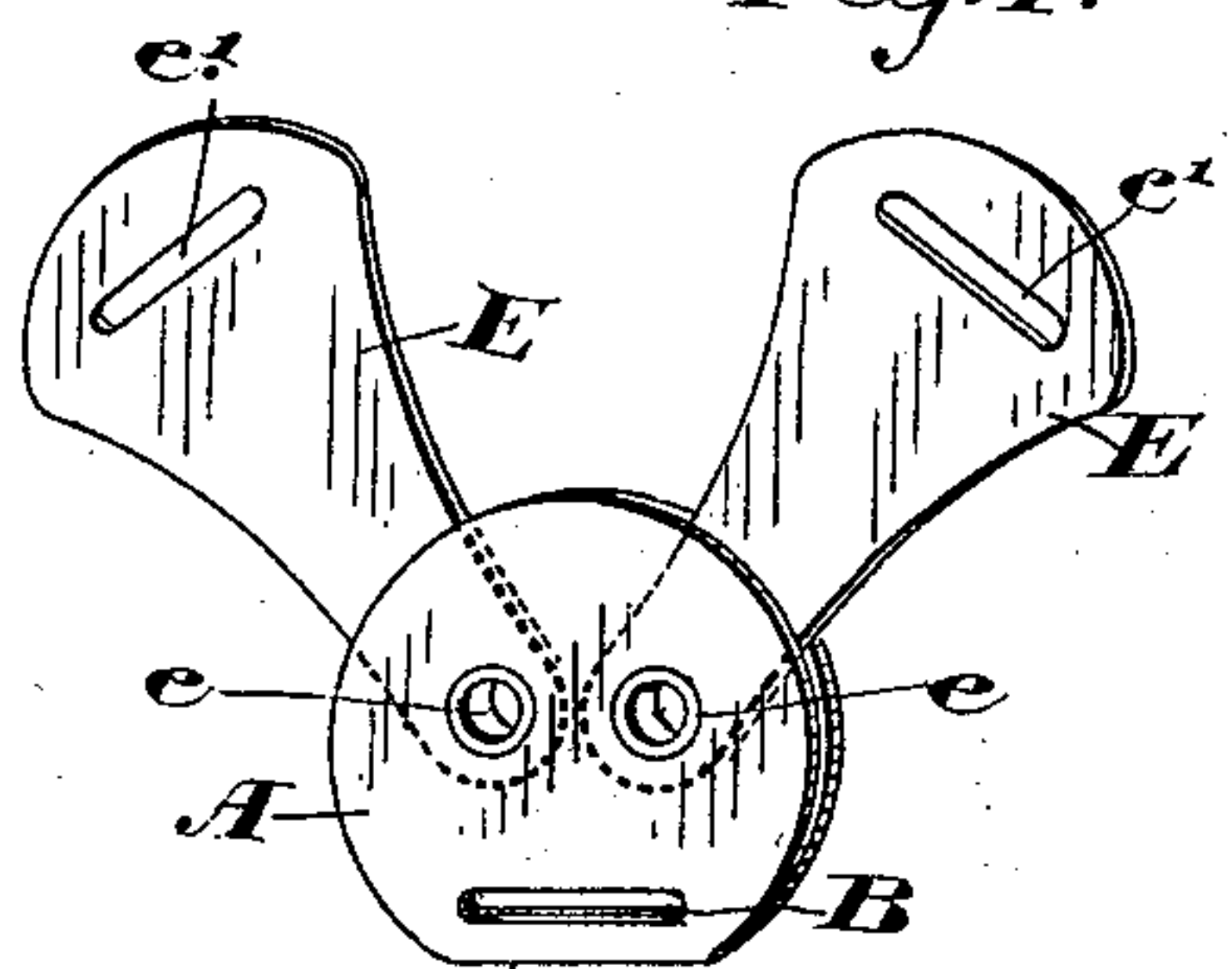


Fig. 2.

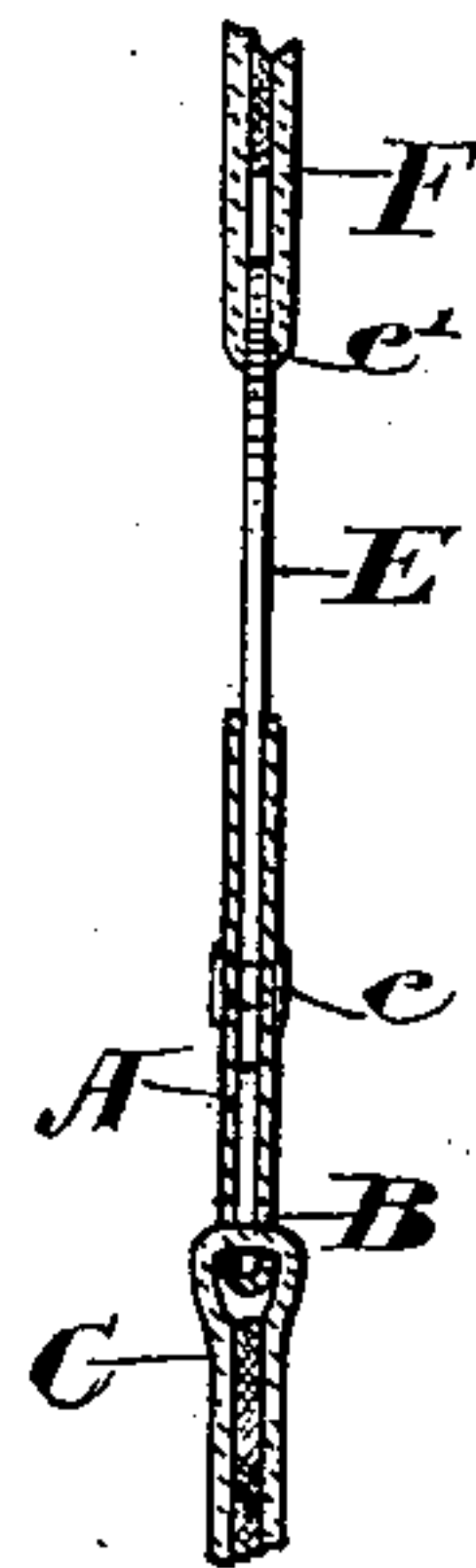


Fig. 3.

Witnesses.

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UNITED STATES PATENT OFFICE.

ARTHUR JAMES JACKSON, OF TORONTO, CANADA.

SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 620,140, dated February 28, 1899.

Application filed March 24, 1898. Serial No. 675,003. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR JAMES JACKSON, manager of loan company, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Suspenders, of which the following is a specification.

My invention relates to improvements in suspenders of that class in which the shoulder-straps are connected by pieces pivoted to a central plate at the back; and the object of the invention is to devise a durable, simple, and cheap connection for the cross portion of the back of the suspenders by which they may be readily thrown from the shoulders more easily and without injuring the connection at the cross portion; and it consists, essentially, of a double integral plate having pivotally connected thereto by two rivets upwardly-extending swing-plates, the upper ends of the swing-plates being provided with slots for the connection of the looped ends of the upper portion of the suspenders and the lower portion of the double plate being also provided with a cross-slot for the connection of the looped end of the lower tabs of the suspenders, the parts being arranged and constructed in detail as hereinafter more particularly explained.

Figure 1 is a perspective view of a pair of suspenders, showing my improved form of connection at the cross portion of the back of the suspenders. Fig. 2 is an enlarged detail of the connecting-plates. Fig. 3 is a longitudinal section.

In the drawings like letters of reference indicate corresponding parts in each figure.

Heretofore it has been common in the construction of suspenders to have the cross portion sewed and connected to a leather connecting-strap in cross form, or substantially so. In the ordinary use of suspenders, especially in stout gentlemen, the connection between the web portion of the suspenders and the leather is frequently greatly strained when the suspenders are thrown over the shoulders down to the thighs when it is desired to remove the trousers. Pivoted pieces connecting the shoulder-straps at the back with a central plate have been heretofore devised; and my invention consists of an improved and

simplified form of this class which may be cheaply made, is durable, and allows the straps to be easily removed from or replaced upon the shoulders.

A is the central plate, preferably substantially circular and composed of a double form folded at the bottom, to which the connections are attached.

B is a slot extending through both portions of the plate A near the folded portion, and C is a leather loop which passes through the slot B and is connected at its lower ends *c c* by sewing or otherwise to the tabs D D, which are connected to the buttons at the top of the back of the trousers.

E are the swing-plates, which are preferably pivoted on two eye-rivets *e e*, situated one at each side of the center of the plate A. The inner plates of course extend between the two portions of the double plate A, which forms a guide, so as to provide for the easy parallel swing of the plates E E on their pivots. The inner ends of the plates E E are of course sufficiently stiffly held on their pivot-points in order to permit of them swinging readily, but not too easily.

The upper ends of the plates E E are provided with cross-slots *e'*, which are connected by the leather loops F F, extending through them to the bottom of the side webs or straps G G of the suspenders. The manner of connection is by sewing through the loop and web; but any other suitable form of connection may be employed.

In such a form of connection as I describe for the cross back portion of the suspenders it will be readily seen that the shoulder portion of the suspenders may be readily thrown off without any injurious effect upon the cross portion and easily swung down into the position shown by dotted lines in Fig. 1, thus avoiding the inconvenience and unavailability heretofore experienced by gentlemen using the common class of suspenders at present in use.

The circular plate may be struck out cheaply from sheet metal, and being in one piece with the connecting-band between the disks this is bent to bring the two disks opposite to each other. The piece connecting the two disks thus forms the connection on one side and strengthens the whole at the

point of the slot B. The two rivets, on which the pieces E are pivoted, form the other connection for the disks. These pieces E being in the same plane and between the disks cannot pass each other and are limited in their downward swing by the connecting-piece between the disks. The part described forms a complete connection for all the straps, and it is very thin and simple and strong.

10 What I claim as my invention is—

A connection for the straps of suspenders, consisting of a substantially circular double plate, composed of one piece, folded one part

on the other with a space between the parts, and with the bend at the bottom, in combination with the swing-plates E, E, pivoted between the parts of the double plate, each on its separate pivot which pivots connect the parts, the said swing-plates being connected with the shoulder-straps and the said double plate having an opening for connection with the buttons at the back. 15 20

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Witnesses:

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