

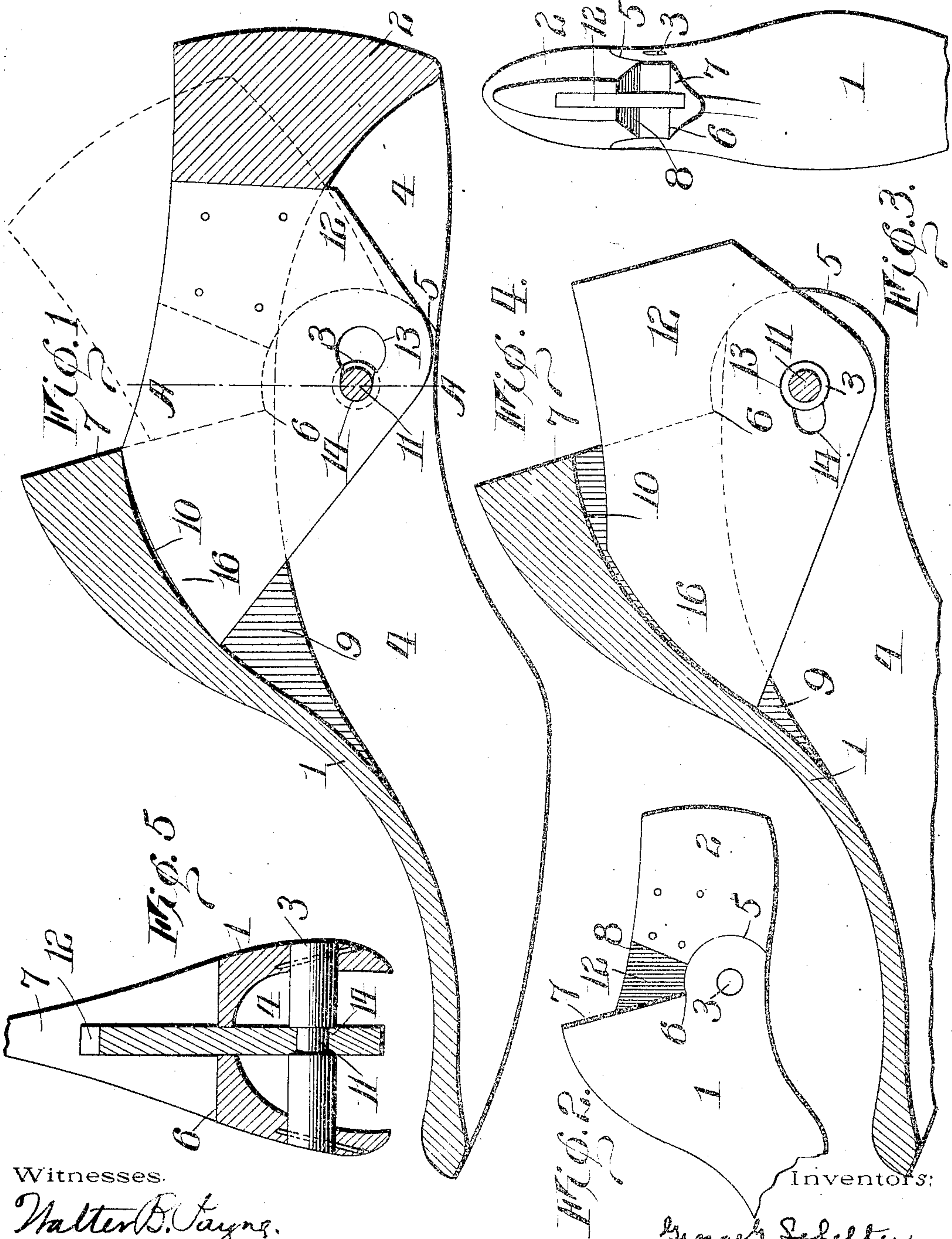
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G. G. & J. C. SCHELTER.

HINGED LAST.

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Witnesses.

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UNITED STATES PATENT OFFICE.

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HINGED LAST.

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To all whom it may concern:

Be it known that we, GEORGE G. SCHELTER and JOHN C. SCHELTER, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Hinged Lasts; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

Our present invention has for its object to provide a simple and inexpensive form of hinge which may be employed as a connection between two relatively movable members consisting of two parts adapted when positioned to be interlocked to prevent the removal of either of them.

Our invention is adapted to be used particularly as a connection between the toe and heel sections of a two-part last for boots or shoes; and it has for its further object to provide a filler-last adapted to be used for exhibiting sample boots or shoes; in which the aforementioned hinge is employed, thus making it possible to hollow out the last to greatly reduce its weight, the form of hinge connection employed serving to retain the sections in alinement and prevent a relative lateral movement of the sections.

To these and other ends the invention consists in certain improvements in construction and combinations of parts, all as will be more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings, Figure 1 is a longitudinal sectional view of a last constructed in accordance with our invention. Fig. 2 is a side elevation thereof, showing the last in the normal position, and Fig. 3 is a top plan view thereof. Fig. 4 is a longitudinal sectional view of the toe portion of the last, illustrating the method of attaching one of the hinge members. Fig. 5 is a cross-sectional view on the line A A of Fig. 1.

Similar reference-numerals in the several figures indicate similar parts.

A last constructed in accordance with our invention and illustrated in Figs. 1 and 2 is formed in the first instance of a single piece of material, preferably light wood, such as pine or bass-wood, and embodying the toe

and heel sections 1 and 2, respectively, which are subsequently separated, as will be further described. The section 1 is first provided with a transversely-extending aperture in which is secured a pin 3, forming one of the hinge members between the parts to be further described, and to reduce the weight of the last it is recessed upon its under side, as indicated by 4. The parts 1 and 2 are then separated by sawing upon the curved line 5, about the before-mentioned aperture as a center, to a point 6, where it meets the rear face 7 of the toe-section, and to permit the movement of the heel-section 2 a portion of the last in rear of the face 7 is removed along the line indicating the face 8 of the heel-section. Extending upwardly from the recess 4 is a slot or aperture 9, formed in each of the two sections, its top terminating along the line 10 on the section 1.

The hinge member 3, before mentioned, forms a pintle, preferably circular in cross-section and at about its middle point is provided with a portion 11, arranged in alinement with the slot 9, forming a journal with a cooperating hinge member, which is engaged at either side by the shoulders provided by constructing the journal portion smaller in diameter than the body of the pintle. The second hinge member is indicated by 12 and is preferably formed of a thin piece of wood or other suitable material provided at its lower end with an aperture 13 equal in diameter to that of the pintle 3, and extending forwardly from said aperture is a notch 14, which when the parts are in their normal position engages with the journal 11 on the pin.

In applying the hinge members to the two parts of the last the operator places the member 12 in the position shown in Fig. 4, when the pin 3 is inserted in the apertures in the section 1 of the last, where it is secured in position by gluing or by means of small brads, as shown in Fig. 5. The member 12 is then drawn rearwardly to engage the notch 14 with the journal 11 to the position shown in Fig. 1 and the heel-section being then located in its proper position relative to the toe-section of the last is secured to the member 12 by any suitable means, such as glue or by small brads or rivets. By this arrangement of the parts the hinge member 12

constitutes a web or plate on the heel-section, which is guided at its upper edge between the sides of the slot 9 and being prevented from lateral movement at its lower edge by the shoulders formed at each side of the journal 11 securely holds the heel-section in alinement. In the arrangement of the parts shown the hinge connection may be readily located near the lower edge of the last and in such position that when the parts are moved relatively on the hinge the length of the last is materially decreased, thereby permitting its easy removal from the shoe, and the forwardly-extending end 16 of the web or plate forms a foot engaging the top 10 of the recess to limit the relative opening movement of the two parts of the last.

The form of hinge members shown and described is simple, and the manner of applying them is such that they may be used upon lasts heretofore constructed, and while the hinge has been described as applied to a shoe-last it will be readily understood that it is equally capable of use in connection with other relatively-movable members adapted to be hinged together.

We claim as our invention—

1. The combination with a slotted member provided with an aperture extending transversely of the slot therein and a second member, of a pintle extending through said aperture and having shoulders forming a journal portion between them arranged in line with the slot, and a hinge portion having an aperture and a recess extending at one side thereof adapted to be held in engagement with the journal when said portion is moved longitudinally and secured to the second member.

2. The combination with two relatively-movable members, one having a slot therein extending in the plane of their movement, and provided with an aperture extending transversely of the slot, of a pintle arranged in the aperture having shoulders forming a journal between them arranged in line with the slot, a web having an aperture and a recess extending at the forward side thereof and adapted to be held in engagement with the journal when the plate is moved longitudinally and secured to the second member,

and a foot on the plate engaging the bottom of the slot to limit the opening movement of the members.

3. In a hollow last, the combination with one hollow section having a slot the top of which forms a stop and provided with apertures extending transversely of the slot, of a second hollow section provided with a web arranged in the slot having the end adapted to engage said top of the recess to limit the opening movement of the two sections and a pintle extending through the apertures in the first section and accessible from the exterior of said section and engaging the web.

4. In a last, the combination with a toe-section and a heel-section provided with slots and a hinge member mounted in one section and extending transversely of the plane of the slots, of a second hinge member revolvable about the first member located in the plane of the slots provided with an aperture and a recess at one side of the aperture adapted to be held in engagement with the other hinge member when moved longitudinally and secured in the other section of the last.

5. In a two-part last, the combination with a recessed section having a slot leading from the recess and having the portions at the opposite sides of said recess provided with apertures, of a second section provided with a web arranged in the slot in the first section having an aperture and a recess at one side thereof, a pintle passing through the apertures in the side portions of the first member and the web and shoulders on the pintle engaging opposite sides of the latter.

6. In a last, the combination with slotted toe and heel sections recessed in their lower sides, of a web located in the slot in each section and secured to one of them and having a portion projecting into the recess in the other section and a pintle in said section engaging opposite sides of the projecting portion of the web to center it transversely in the recess in alinement with the slot in said section.

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