

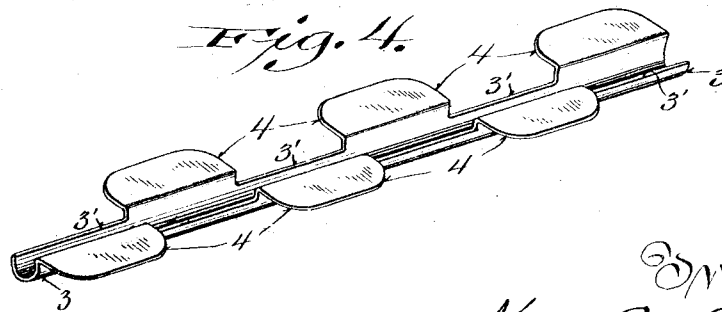
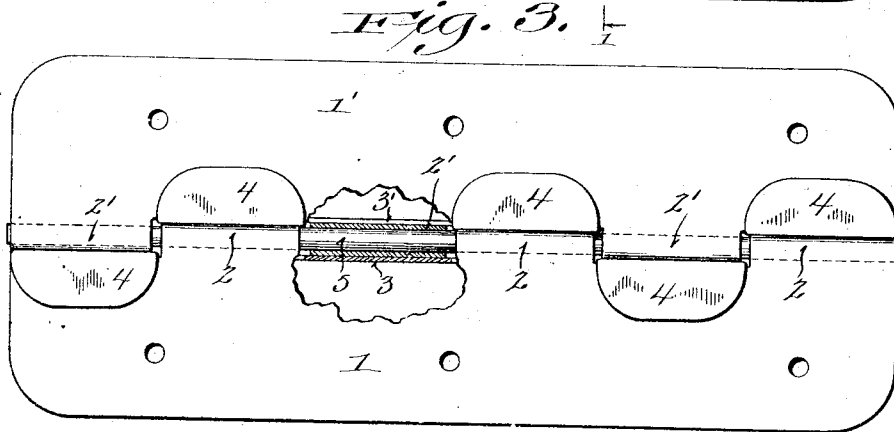
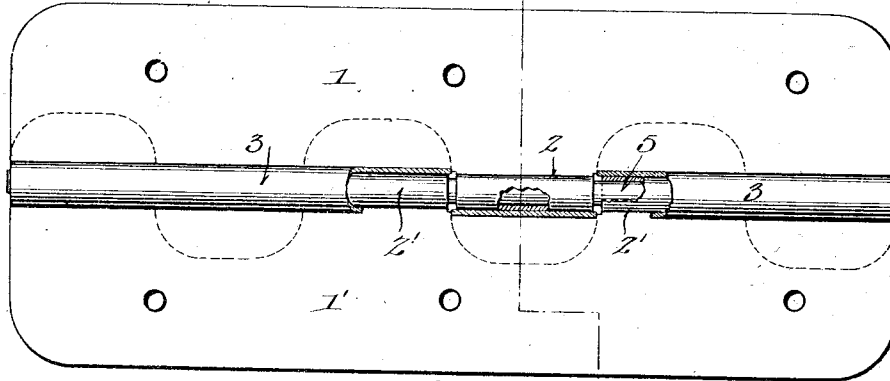
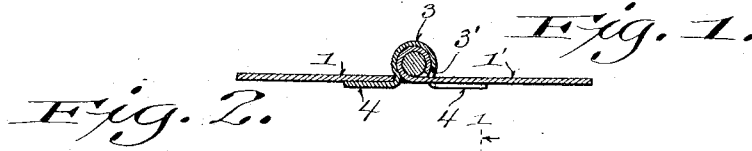
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HINGE.

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1,052,515.

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UNITED STATES PATENT OFFICE.

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HINGE.

1,052,515.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ABNER EDWARD RILEY, a citizen of the United States, and resident of Hartford, in the county of Washington and State of Wisconsin, have invented certain new and useful Improvements in Hinges; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention refers to hinges, its object being to provide a simple, durable, separable reinforcing jacket for hinge knuckle-joints, the same, for example, being applicable to hood or engine casings, of automobiles or the like, said hoods being usually formed in two longitudinal sections connected by hinge members.

Heretofore it has been the practice to finish the hinge members either by enameling, painting, or the like and when said hinge members are connected by the pintle, movement of one member upon the other will cause the finish to be marred or scraped from the knuckle of the hinges, whereby they soon become unsightly. By employing a jacket in accordance with my invention in nested engagement with the knuckle of the hinge it is apparent that the paint or enamel which may be marred upon said knuckle will be entirely concealed. Furthermore this construction is even more desirable where the leaf-members of a hinge only are to be enameled or otherwise finished and it is desirable to finish the knuckle in a contrasting color. It is apparent that in some cases the jacket may be finished in the desired contrasting color and thereafter adjusted in position over the knuckle to form a fixed cover therefor, whereby a neat appearing hinge joint is presented which will always maintain its high finish.

Another advantage of my invention is due to the fact that the jacket adds materially to the strength of the hinge, enabling manufacturers to use the same material for making the center hinge of an engine hood as that utilized in connection with the body of said hood, or the tubular knuckle members may be cut directly from the body of the hood and connected by a pintle, the metal being thus strengthened by the insertion of a reinforcing jacket which permits free movement of the hinge members therein.

With the above objects in view the invention consists in certain peculiarities of con-

struction and combination of parts as set forth hereinafter with reference to the accompanying drawings and subsequently claimed.

In the drawings Figure 1 represents a cross-section of a hinge embodying the features of my invention; Fig. 2, a top plan view of the same; Fig. 3, an inverted plan view of said hinge, and Fig. 4, a detailed bottom plan view of the reinforcing jacket.

Referring by characters to the drawings, 1, 1', represent the leaves of a hinge provided with tubular knuckle sections 2, 2', respectively, which knuckle sections are fitted in alinement in the usual manner, breaking joints with each other, the knuckle sections of one leaf member being seated in the indenture space between the opposite knuckle sections. Prior to assembling the hinge members a tubular reinforcing jacket 3 is fitted over the knuckle sections of one of the hinge members, the said jacket being provided with an open throat portion 3', from the edges of which project transverse tongues 4, the same being staggered and extended in opposite directions for engagement with the indenture space between the knuckle sections of the hinge members. After the jacket is inserted in position upon one of said hinge members, the knuckle sections of the opposite member are fitted into position; whereby they will nest with the jacket and the tongues thereof will lie flatly against the bottom face of the hinge-leaves, being disconnected therefrom however, whereby free movement of each hinge member is had. Thereafter a pintle 5 is inserted through the knuckle sections in the usual manner.

It is apparent from the foregoing description that either hinge member is free to rock upwardly upon the pintle, and owing to the loose engagement of the jacket with the hinge knuckle, there will be approximately no movement thereof, the leaf in its upward swing being free to move clear of the tongues thereunder. Hence it is obvious that while there may be abrasion of the hinge knuckles, this abrasion will be entirely concealed by the jacket which not only has the function stated, but will also add rigidity to the hinge. In finishing the hinge members it is also clear that the jacket may be finished in nickel or any contrasting finish from that of the leaves, or it may be finished to correspond with the finish

of said leaves and when inserted in position over the knuckles the parts will always present a neat appearance.

I claim:

- 5 1. A knuckle-jointed hinge having a detachable reinforcing tubular jacket in nested engagement with the hinge knuckle, but otherwise free of the leaves, whereby each leaf has movement independent of the
10 jacket.
2. In a hinge having separable leaf members provided with knuckle sections, and a pintle for the knuckle sections; the combination of a tubular reinforcing jacket adapted to be nested over the hinge knuckle but
15 otherwise free of the leaves, and retaining means extending from the jacket engageable with each leaf member between its knuckle

sections, whereby each of said leaf members has movement independent of the jacket.

3. In a hinge having separable leaf members provided with knuckle sections, and a pintle for the knuckle sections; the combination of a tubular reinforcing jacket adapted to be nested over the hinge knuckle, and transversely disposed tongues extending from the jacket engageable with each leaf member between its knuckle sections.

In testimony that I claim the foregoing I have hereunto set my hand at Hartford in the county of Washington and State of Wisconsin in the presence of two witnesses.

ABNER EDWARD RILEY

Witnesses:

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