No. 737,743. PATENTED SEPT. 1, 1903.

L. KRAGEN.

CONVERTIBLE BED AND SOFA OR CHAIR.

APPLICATION FILED OCT. 27, 1902.

NO MODEL.

Fig. 1.

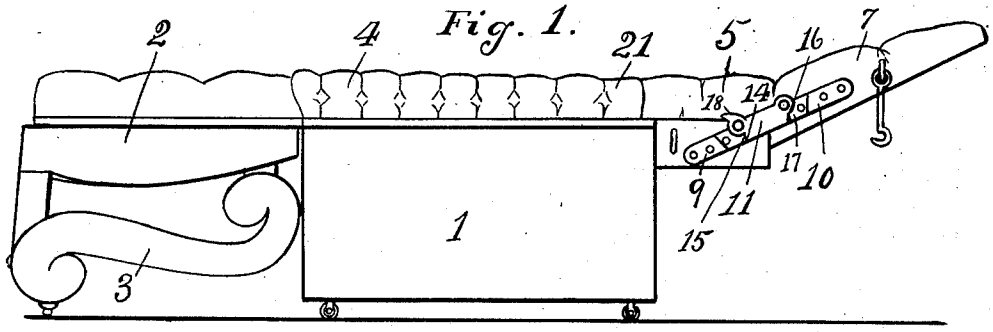


Fig. 2.

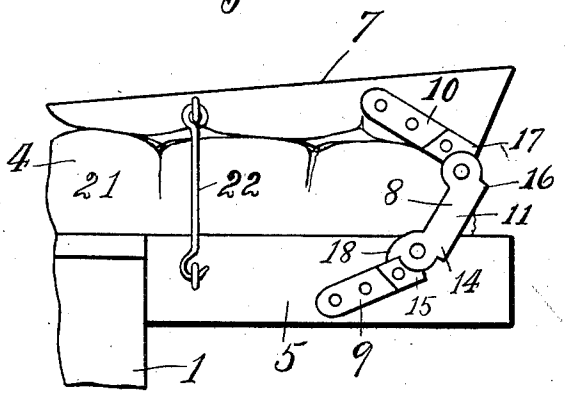


Fig. 3.

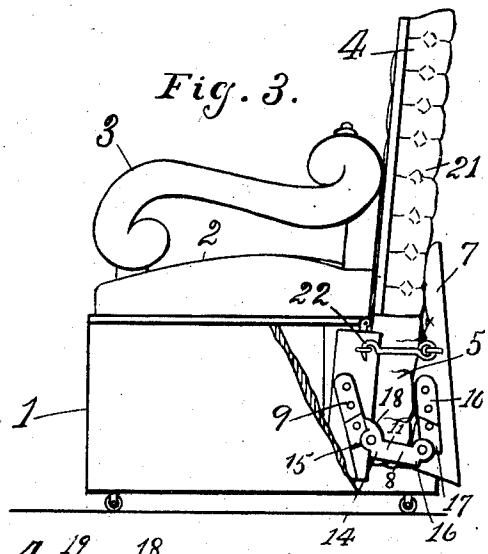


Fig. 4.

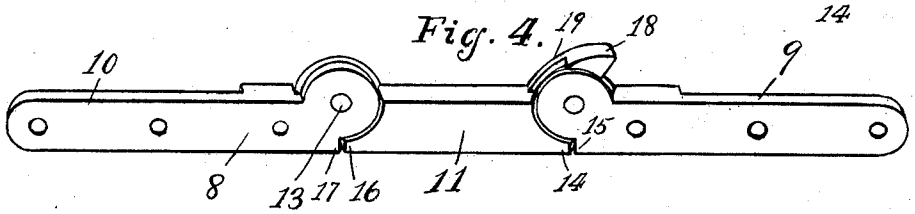
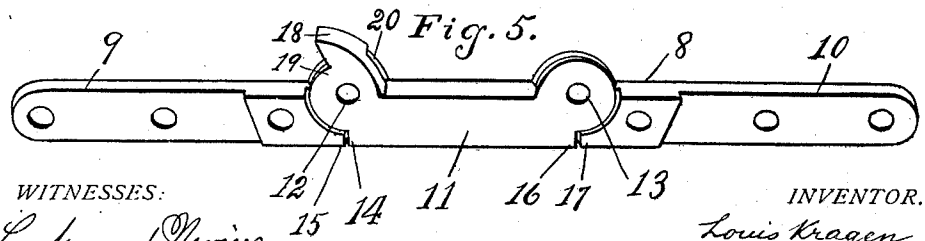


Fig. 5.



WITNESSES:

K. Lockwood Nevins.

Bessie Goffinkel.

INVENTOR.

Louis Kragen

BY

Francis M. Wright

ATTORNEY.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 737,743. Patented September 1, 1903.

UNITED STATES PATENT OFFICE.

LOUIS KRAGEN, OF SAN FRANCISCO, CALIFORNIA.

CONVERTIBLE BED AND SOFA OR CHAIR.

SPECIFICATION forming part of Letters Patent No. 737,743, dated September 1, 1903.

Application filed October 27, 1902. Serial No. 128,995. (No model.)

To all whom it may concern:

Be it known that I, LOUIS KRAGEN, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Convertible Beds and Sofas or Chairs and Hinges for the Same, of which the following is a specification.

My invention relates to improvements in convertible beds and sofas or chairs and in hinges for the same, and is an improvement upon the invention for which a United States patent was granted to me September 16, 1902, No. 709,333.

The object of the present invention is to provide an improved construction whereby the head-piece, which is folded against the lower portion of the back, is secured thereto, so as to permit of the adjoining edges of said head-piece and back being amply upholstered or cushioned to form a soft support for the head of the occupant of the bed and also to permit of the head-piece being folded snugly against the back of the sofa or chair, so that the latter can be moved close up to the wall.

My invention therefore resides in the novel construction, combination, and arrangement of parts for the above ends hereinafter fully specified, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a side view of my improved device extended to form a bed. Fig. 2 is an enlarged side elevation showing the head-piece folded over onto the top of the back, which is still in a horizontal position. Fig. 3 is a side elevation of the apparatus when folded to form a sofa or chair, the rear edge of the support being broken away. Figs. 4 and 5 are enlarged perspective views from opposite sides of the hinge detached.

The apparatus described and illustrated herein is in the main identical with that described and shown in my patent above referred to, and the principal features thereof need not be specified in detail.

1 represents the box or support for the bed, to the front side of which is hinged the seat 2, resting when the device is used as a bed upon the arms 3.

4 represents the back, hinged to the box or support 1, as shown in said patent, and having an extension 5 below said hinges. Said back when the device is to be used as a bed is swung forward, so that the upper portion rests upon the box 1, while the lower portion or extension 5 projects rearwardly, forming the upper portion of the bed.

To the lower edge of the back is secured the head-piece 7, said head-piece being secured to said back by my improved hinges 8. Each hinge comprises a leaf 9, secured to the frame of the back, a leaf 10, secured to the frame of the head-piece, and a link 11, jointed, as shown at 12 and 13, to said leaves. The link 11 has formed on its under side a shoulder 14, abutting against a shoulder 15, formed on the leaf 9 and arresting the outward movement of the link when the link and leaf are almost in a straight line. In like manner said link 12 and leaf 10 have formed on their under sides abutting shoulders 16 and 17, which arrest the downward movement of the upper leaf when said upper leaf and link are in a straight line. The forward or inward movement of the link relatively to the lower leaf is arrested by means of a shoulder 18, cast or formed upon the knuckle 19 of said link and overlapping the knuckle 20 of the leaf 9, which shoulder abuts against the upper edge of the leaf and arrests the forward or inward movement of the link relative to the leaf at an angle of about one hundred and thirty-five degrees. The upper leaf is free to move forwardly to any desired extent, so that the upper edge of the head-piece can be brought down close to the surface of the mattress 21 which covers the back. When the head-piece is folded up, it is secured in place by any suitable means, as by a hook 22. It will be seen that this construction permits of the head-piece and back being spaced apart at a considerable distance, so as to allow a thick mattress being interposed therebetween, while when the head-piece is opened out the edges of said mattress close to form a suitable cushioned support for the head of the occupant of the bed.

The knuckles 19 and 20 of the link and leaf are each formed of half the thickness of said link and the inner part of the leaf, so that they overlap one another, and when the link and leaves are put together the whole hinge is of uniform thickness except at the termi-

nal portions, which are made thinner to lighten the construction. This overlapping of the knuckles permits of said knuckles being swung one upon the other without requiring increased thickness of space in which to work.

I claim—

A convertible bed, and sofa or chair comprising a suitable support, a back hinged to said support, a head-piece, and a hinge connecting said head-piece and back, said hinge comprising leaves attached respectively to the head-piece and back and a link pivotally connecting said leaves, said link and each leaf having coengaging knuckles of circular form moving in circular recesses formed by the companion knuckles and the parts to which they are attached, said knuckles being placed side by side and having central pivot-pins therethrough, said link and leaves having also shoulders extending radially from each knuckle outward and abutting against each other, and the inner knuckle of the link having an extension overlapping the knuckle of the leaf attached to the back, said extension having a shoulder adapted to abut against the edge of said leaf, to arrest the inward movement of the link, the outer leaf being free to swing inward, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two subscribing witnesses.

LOUIS KRAGEN.

Witnesses:
FRANCIS M. WRIGHT,
BESSIE GORFINKEL.