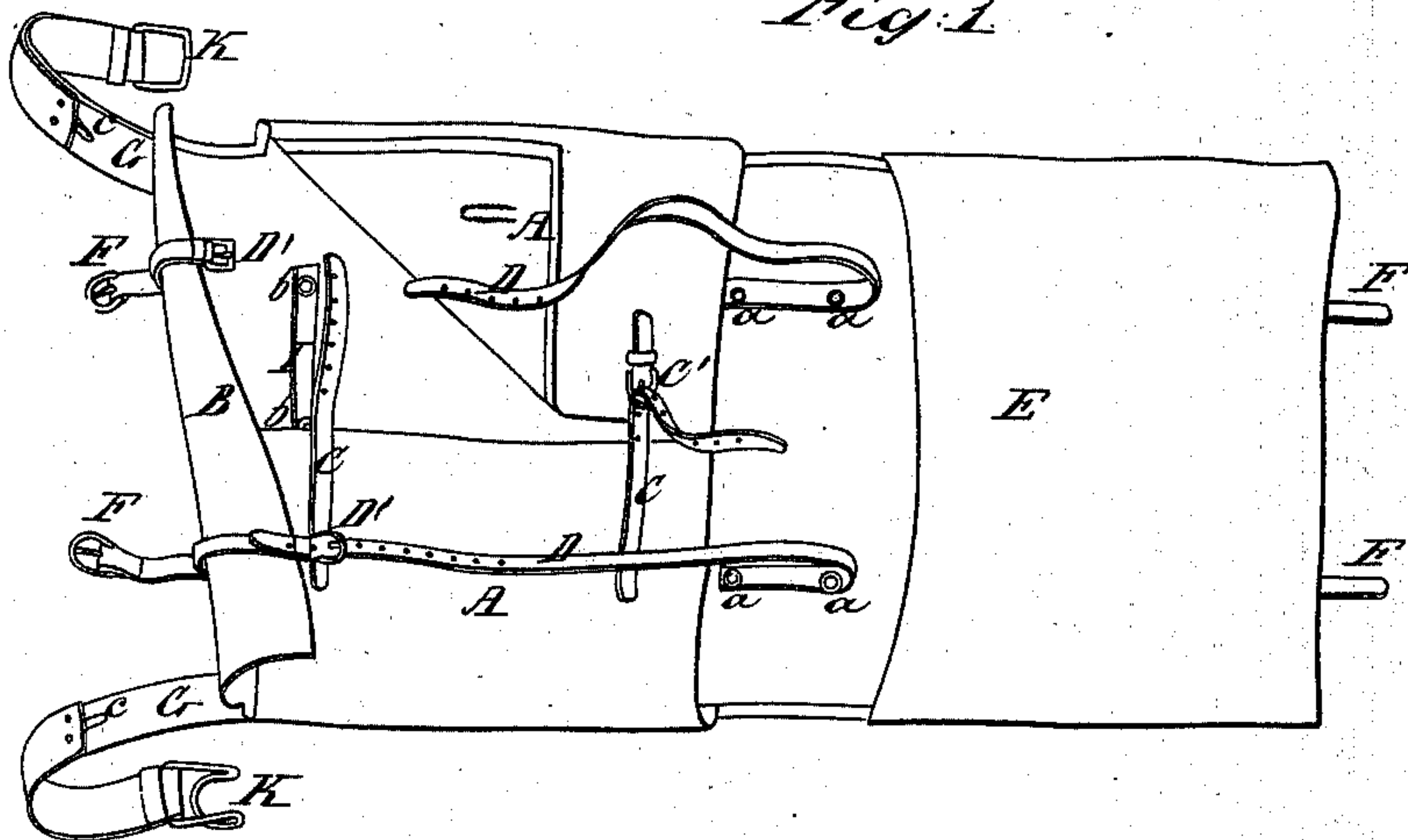
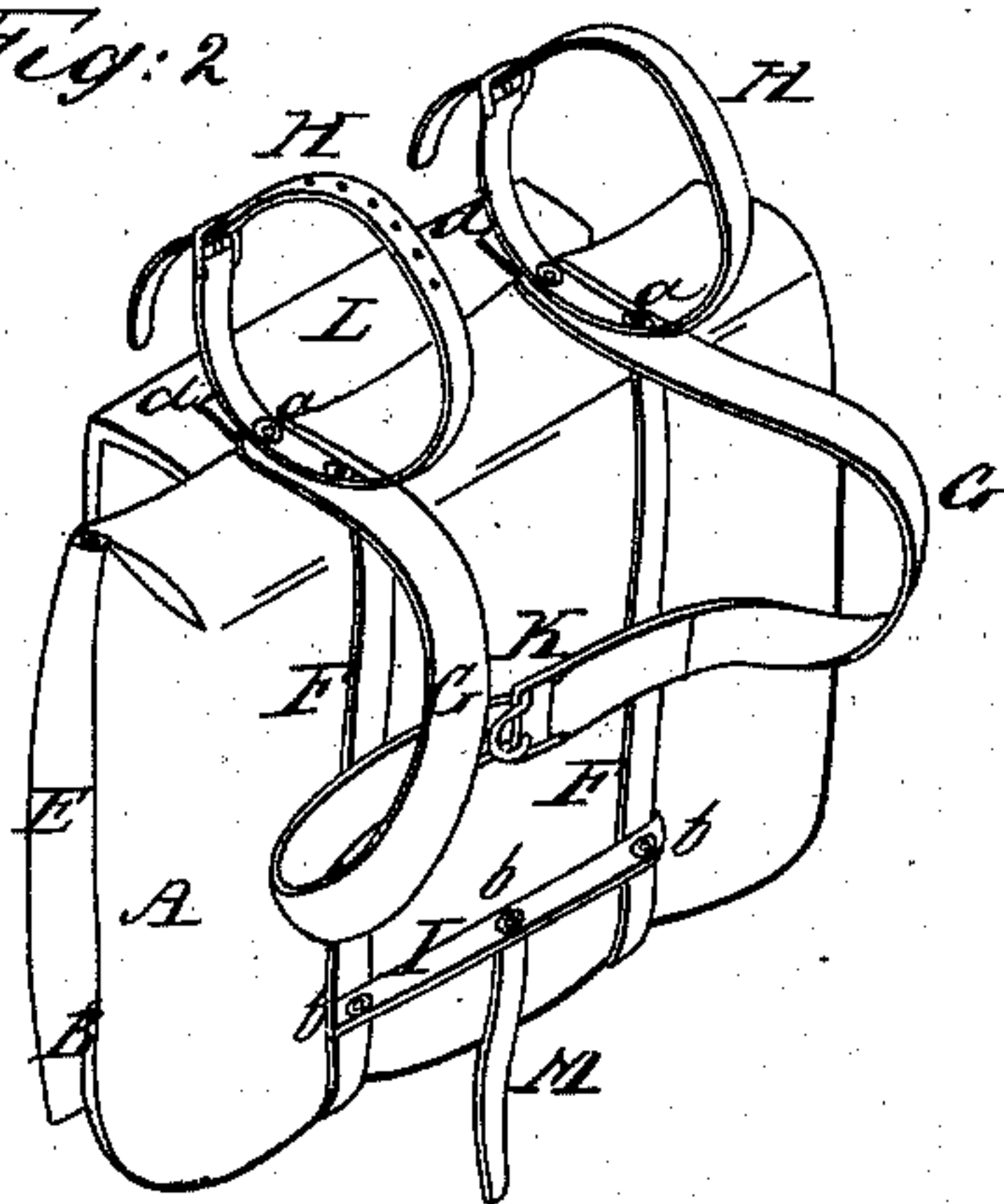


*J. K. Mizner,*  
*Accouterments,*  
*No 60,034,* *Patented Nov. 27, 1866.*

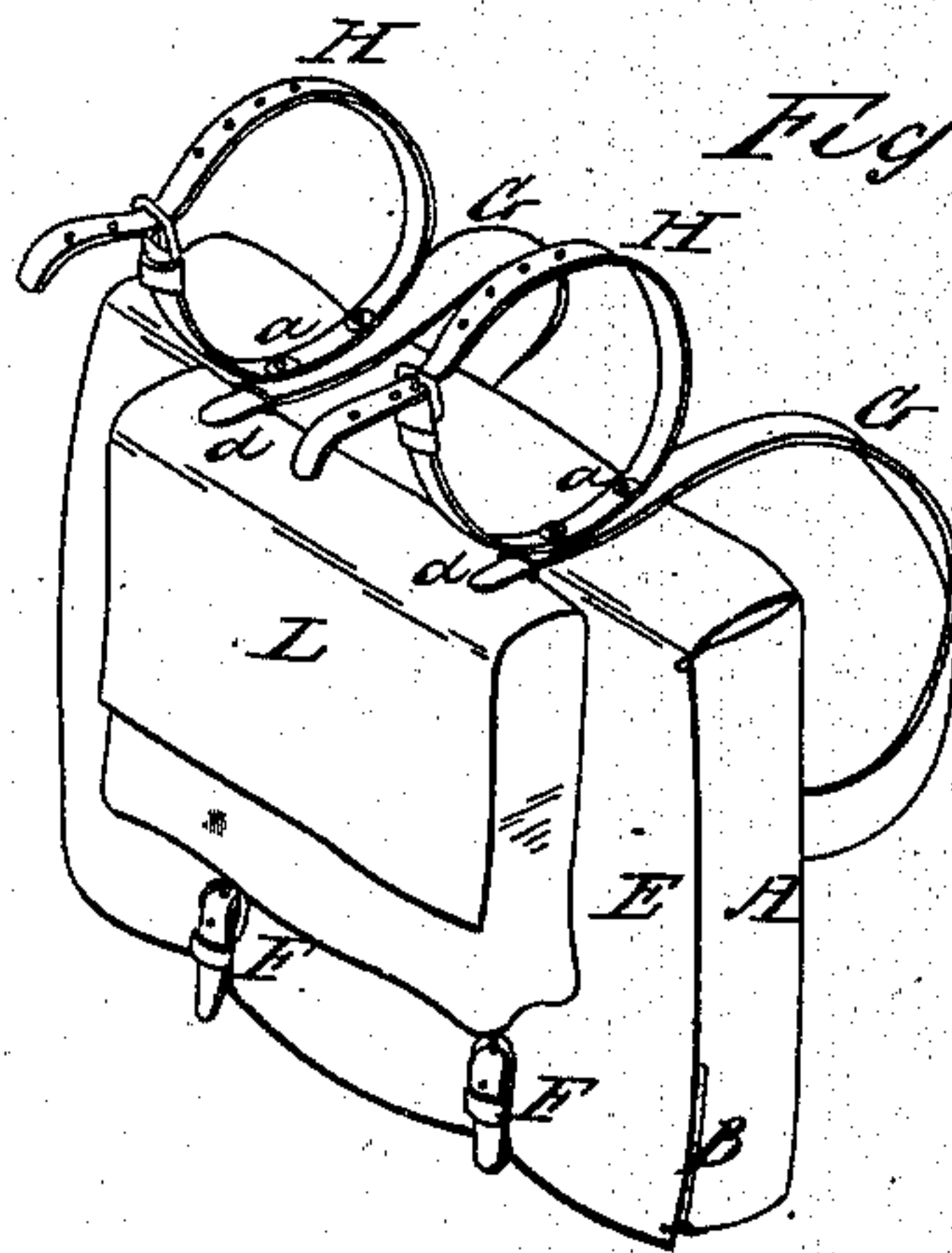
*Fig. 1*



*Fig. 2*



*Fig. 3*



*Witnesses*

*Roger C. Hightman*  
*Thomas J. Hurdle*

*Inventor*

*J. K. Mizner*  
*By Munroe*  
*Attorneys*



# UNITED STATES PATENT OFFICE.

J. K. MIZNER, OF DETROIT, MICHIGAN.

## IMPROVEMENT IN KNAPSACKS.

Specification forming part of Letters Patent No. 60,034, dated November 27, 1866.

*To all whom it may concern:*

Be it known that I, J. K. MIZNER, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Infantry Knapsacks; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a plan showing the knapsack unfolded, with the interior surfaces uppermost. Fig. 2 is a perspective view, showing the knapsack folded and that side of it which is next to the soldier's back. Fig. 3 is also a perspective view, showing the rear of the knapsack.

In all the figures like parts are indicated by the same letters of reference.

The nature of my invention consists in so arranging the parts of a water-proof knapsack as to afford a more convenient mode of packing it than has been heretofore attained, and combining with it a haversack so attached as to be without any tendency to swing, and not so liable to be torn as when worn on the side of the soldier. At the same time the straps that secure the parts of the knapsack together when packed and folded are not sewed to the material of the knapsack, but are riveted to each other, and quite surround the knapsack when folded, and are also riveted to the slings by which the knapsack is supported on the back and shoulders, thereby preventing any undue strain upon the material of the knapsack. The peculiar arrangement of the slings and straps, moreover, is such as to prevent the knapsack from falling away from the shoulders and from rolling or flapping, and permit it to be slung and unslung with facility.

A A and B, Fig. 1, are flaps, which, when opened entirely out, will make the knapsack cruciform. Underneath these flaps the blanket, compactly folded, is to be placed, and whatever clothing the soldier pleases. The flaps A A are secured by the straps C C and buckles C' C'. The flap B is secured by the straps D D and buckles D' D'. The pocket E, packed with whatever may be desired, is turned over onto the top of the flaps, and is

fastened by the straps and buckles F F. These straps are long enough to completely surround the knapsack when folded, and are riveted through the stuff of the knapsack to the inside straps D D, Fig. 1, and to the shoulder-slings G G and coat-straps H H, Figs. 2 and 3, by the rivets *a a*. They are also kept from slipping laterally by rivets *b b* passing through them and through the straps I, Fig. 1, and I', Fig. 2. The shoulder-slings G G, attached, as described, and shown in the drawing, by rivets, to the straps D, F, and H, pass over the shoulders, down under the arms, and across the back, where they meet, and connect with each other by means of the hook and eye K, as seen in Figs. 1 and 2. They can be adjusted in their lengths by the common device of a hook catching into a hole in the strap, in the same manner as a belt or gun-strap is adjusted. (See *c c*, Fig. 1.) The ends *d d* of the slings G G are billets, which pass through buckles on the haversack L, and secure it to the knapsack. The straps F F, in passing down the rear of the knapsack, pass through loops or keepers near the bottom of the haversack, on that side of it which is next to the knapsack, and prevent any separation of the two. A billet, M, is riveted to the straps I I', and is intended to buckle into the waist-belt, to keep the knapsack from flapping.

Having thus fully described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. The straps D, F, and H, riveted together, and arranged and combined together with each other, and with a knapsack, substantially as set forth, for the purpose of affording a reliable support for the weight of a knapsack and its contents.

2. The manner, as described, of slinging a knapsack by means of straps passing over the shoulders, under the arms, and across the back, to meet and connect together, substantially as set forth.

J. K. MIZNER.

Witnesses:

AXEL S. ADAMS,  
GEO. W. GATES.