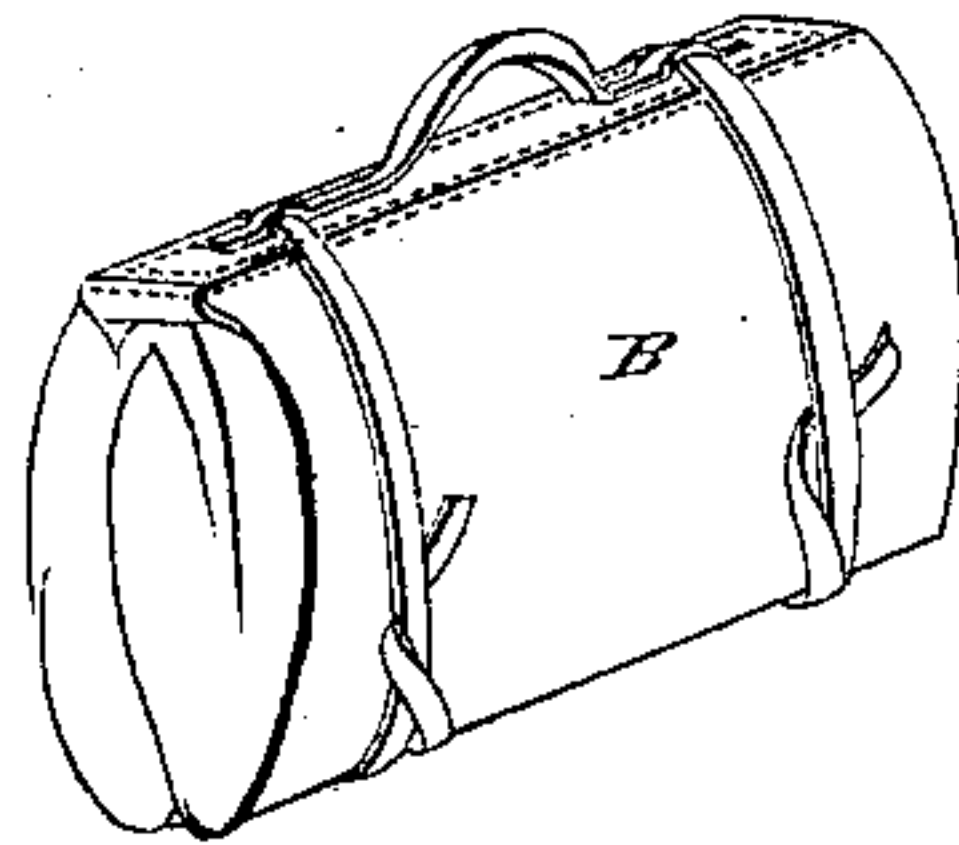
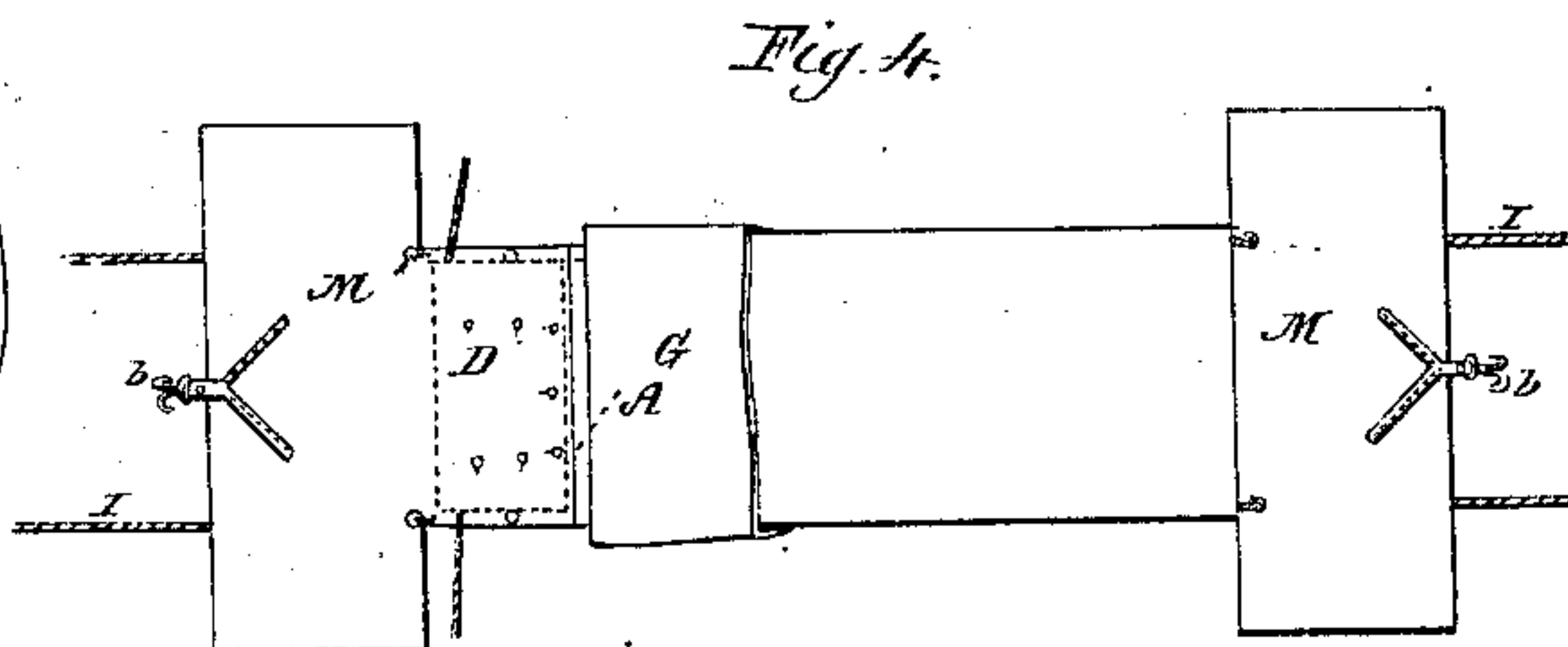
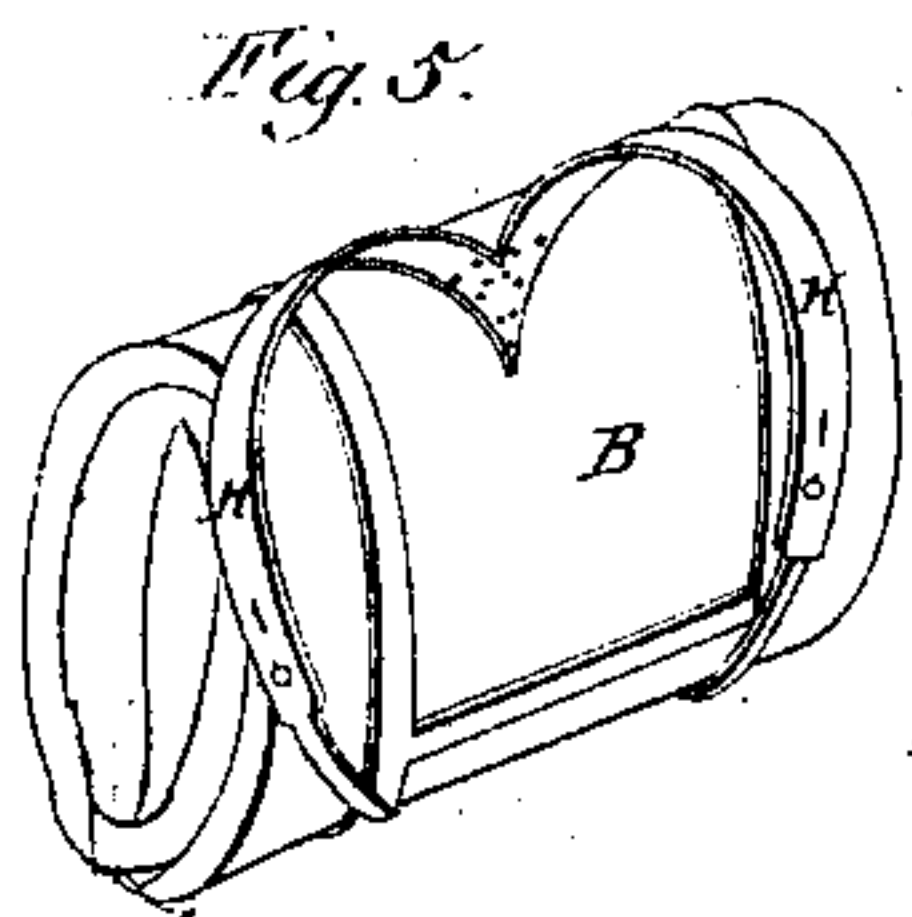
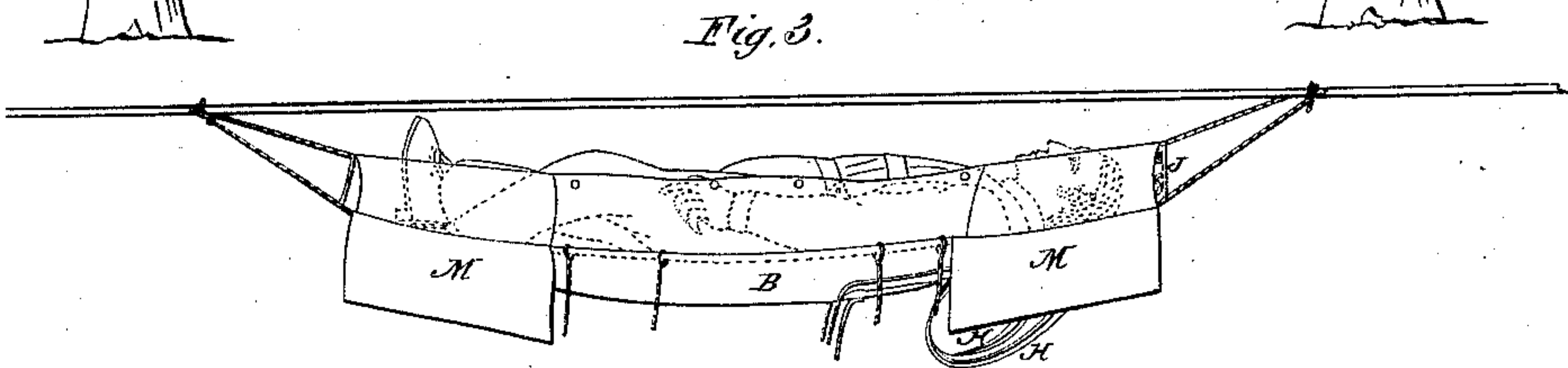
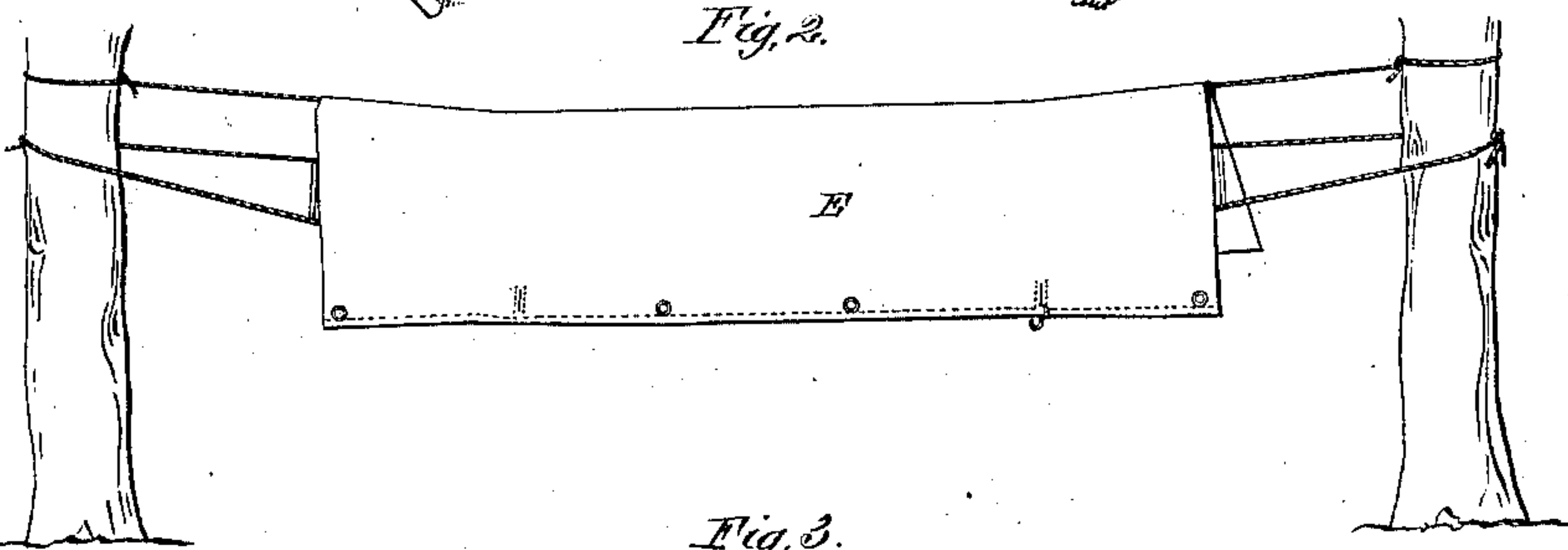
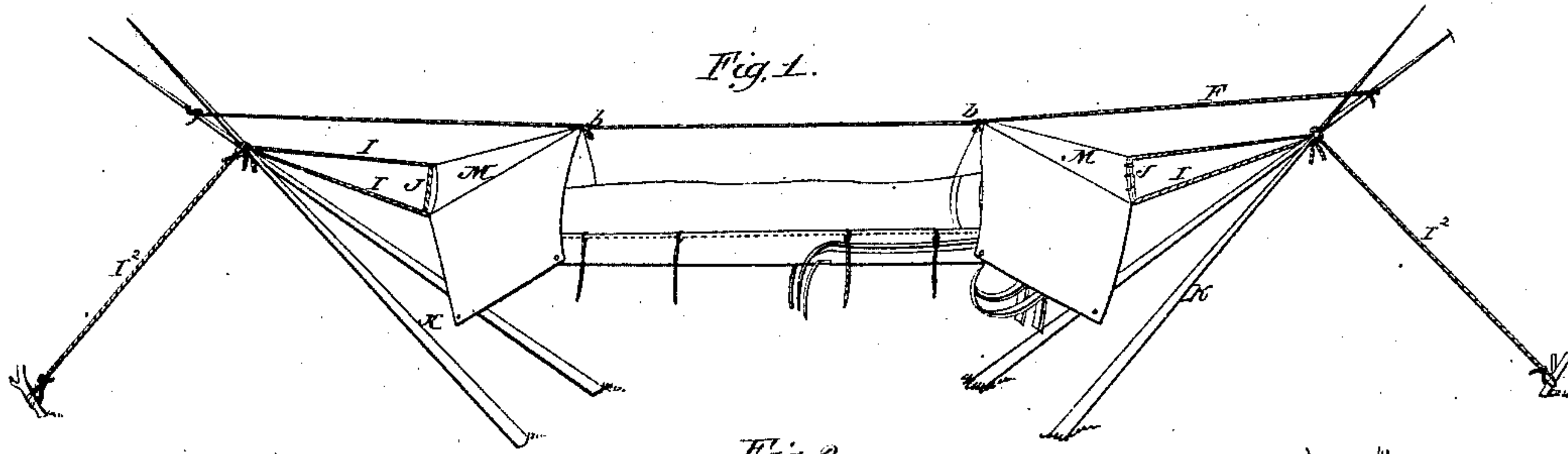


G. Abbott,

Tent,

N^o 41, 418,

Patented Feb. 2, 1864.



Witnesses: James H. Hickey.
Charles DuBois.

Inventor:
G. Abbott,
By Munroe Atty.

UNITED STATES PATENT OFFICE.

GRANVILLE ABBOTT, OF THE UNITED STATES ARMY.

IMPROVEMENT IN KNAPSACK-HAMMOCKS.

Specification forming part of Letters Patent No. 41,418, dated February 2, 1864.

To all whom it may concern:

Be it known that I, GRANVILLE ABBOTT, of Rumford, in the county of Oxford and State of Maine, now enlisted in the Thirty-First Regiment Indiana Volunteer Infantry, have invented a new and improved knapsack for the use of the troops in the field in actual service; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 represents my invention as it appears when used as a hammock swung on stakes, the outer covering being removed to show the manner of forming the hoods or covering for the head and feet. Fig. 2 represents the same as it appears when used as a hammock swung from and between two trees, with the outer covering in place. Fig. 3 represents the same adapted for use as a litter. Fig. 4 represents a top view of the same opened and spread out on the ground. Fig. 5 represents the same rolled up into the form of a knapsack. Fig. 6 represents a similar view of the same provided with a handle.

The nature of my invention consists in the construction of a knapsack adapted for use as a litter, and also as a hammock.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct my knapsack principally of rubber or oil cloth and canvas, with straps and buckles attached thereto, in order that it may be conveyed in the same manner as the knapsack now used.

My knapsack, when unrolled and swung, resembles a hammock very much, but differing from it in its combined construction, and in the improvement I have made in swinging it where there are no permanent fixtures for that purpose.

I make my knapsack six feet long, two feet and three inches broad, (when unrolled,) with small ropes passing through a hem at the edge in each side, and extending three feet (more or less) from each end thereof, to be used in swinging the hammock from trees or stakes, as may be most convenient. The lining A (shown in Fig. 4 of the accompanying drawings) I make of canvas, and the outside or back B of rubber or oil cloth, with an extension, M, of one foot and six inches by three feet and nine inches at each end, to turn over

the head and feet of the occupant and form covers therefor when used as a hammock, said covers being fastened to a suspended line, F, above by a hook, b, in the center of each, as shown in Fig. 1. The rubber or oil cloth I use for the back B is intended to keep out all dampness and cold winds. I make a pocket at D, the dimensions of which may be ten by fourteen inches, in which to carry extra clothing, and, when the soldier is in bed, answers for a pillow.

The knapsack should be accompanied by a rubber blanket, E, six feet long and three feet and nine inches broad, to be placed across and fastened to the suspension-line F at night for a shelter to the bed. This blanket can be used with another one where two swing their knapsacks close together, to make them a shelter-tent over their beds; or it may be used on a march when it rains.

I use one light wool blanket, G, six feet long and four feet and six inches broad, with this knapsack, buttoned to the side, one half to sleep on and the other to cover with, or may be detached and be warm enough for summer.

H represents straps, buckles, &c.

I represents the suspension-cords, and I² guy-ropes.

J represents spread-sticks, and K stakes. The stakes and spread-sticks are not intended to be transported, except for officers, as they are very quickly and easily made.

To use this knapsack to convey the wounded from the field, it should be unrolled, the spread-sticks put in, the soldier placed on the knapsack, and each end of the knapsack fastened to a pole above by the suspension-cords. Then he can be carried off at ease.

What I claim as my invention, and desire to secure by Letters Patent, is—

The back B, formed of water-proof material lined with canvas-cloth A, with an extension, M, at each end, to form hoods or covers for the head and feet of the occupant when used as a hammock, in combination with a water-proof blanket, E, suspension-cords I I, and line F, the former passing through hems in the sides of the back B, when the whole is constructed and arranged, so as to form a convertible knapsack, hammock, and litter, in the manner described.

Witnesses: GRANVILLE ABBOTT.

SAM. MAGILL,
JOHN D. HUNT.