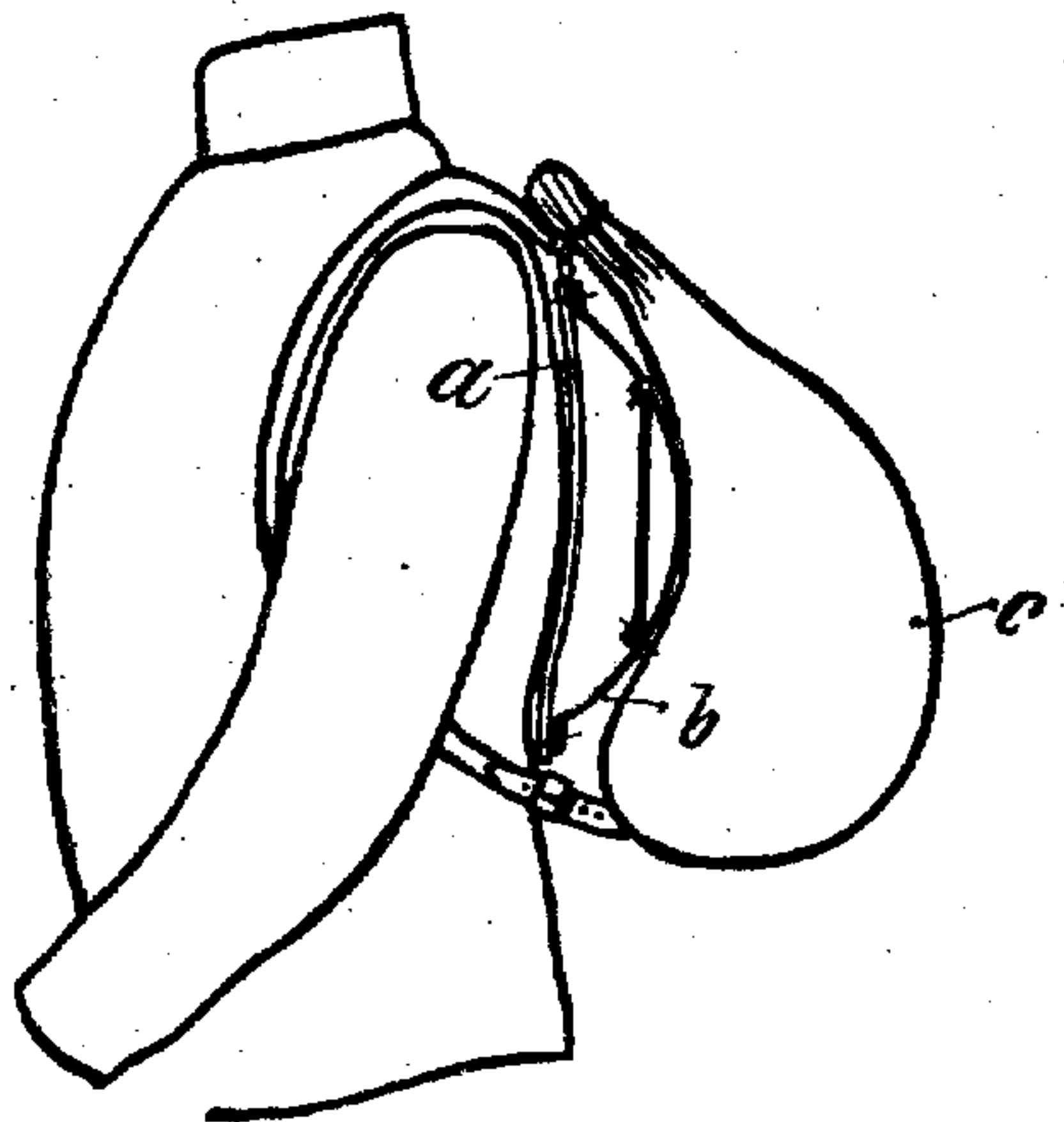


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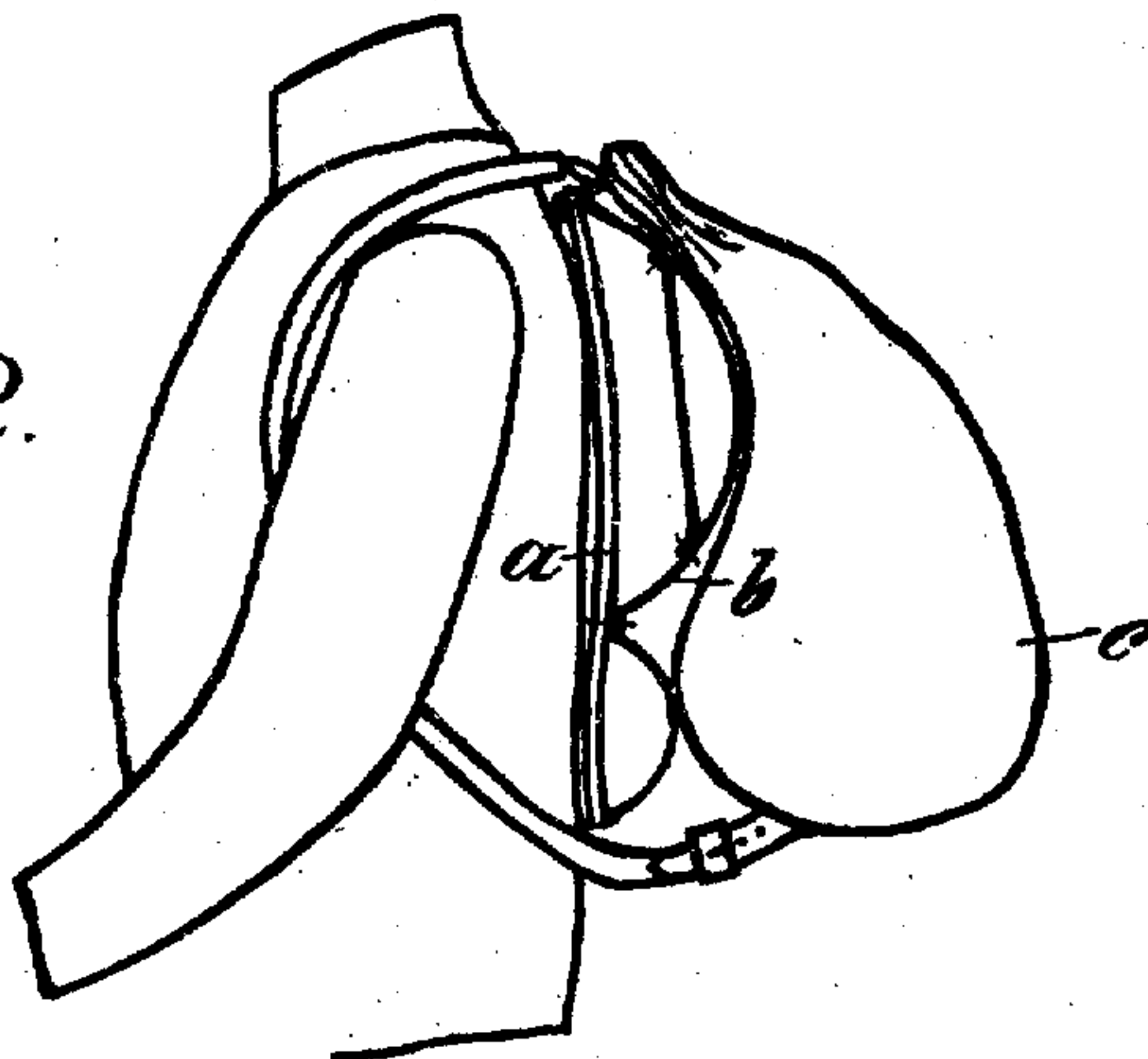
A. SCHUMACHER.  
KNAPSACK AND THE LIKE.  
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Patented Apr. 12, 1910.

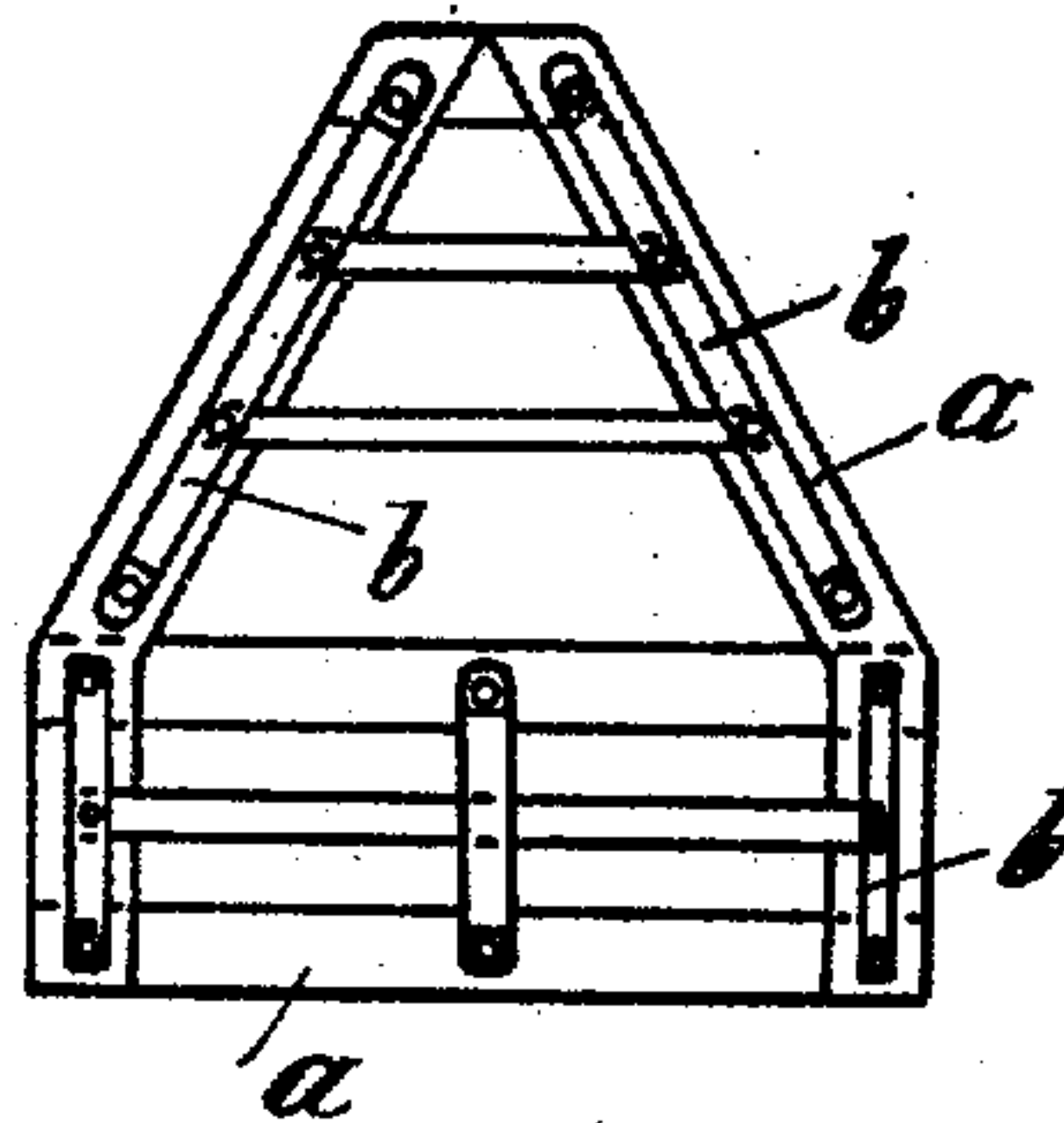
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses,  
C. W. Rommels  
May Ellis

Inventor  
Albert Schumacher,  
By Henry Orth *[Signature]* atty.

# UNITED STATES PATENT OFFICE.

ALBERT SCHUMACHER, OF STETTIN, GERMANY.

KNAPSACK AND THE LIKE.

954,825.

Specification of Letters Patent.

Patented Apr. 12, 1910.

Application filed December 10, 1909. Serial No. 532,392.

*To all whom it may concern:*

Be it known that I, ALBERT SCHUMACHER, a subject of the German Emperor, residing at Stettin, Germany, have invented certain  
5 new and useful Improvements in Knapsacks and the Like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-  
10 pertains to make and use the same, reference being had to the accompanying drawings and to letters of reference marked thereon, which form a part of this specification.

My invention relates generally to knap-  
15 sacks and particularly to so-called rucksacks or game-bags. These bags which are worn on the back were heretofore carried so that the material of the bag lay directly on the back of the wearer. When worn for a long  
20 time this arrangement is inconvenient since the air is entirely kept away from the back of the wearer and any solid bodies, as *e. g.* boots, in the bag exercise unequal pressure on the back.

25 A primary object of my invention is to remedy these defects. I arrange that the pressure of the load is taken up by a device and distributed uniformly on the back of the wearer; the troublesome heating and  
30 perspiration otherwise caused is avoided by air being afforded free access to the back of the wearer.

My improved knapsack comprises in combination an elastic frame, which lies on the  
35 shoulder straps of the rucksack or knapsack and between these straps and the bag or knapsack proper, and a rucksack, knapsack, bag or the like. The frame takes up the pressure of the bag or knapsack and imparts  
40 it to the straps; the pressure then acts uniformly on the back of the wearer and, what is very material, can be placed on less sensitive parts of the back.

Some illustrative embodiments of my in-  
45 vention are represented by way of example in the accompanying drawing wherein:

Figure 1 is a side elevation showing one form, whereas Fig. 2 is a like view of another form, and Fig. 3 is a front elevation of  
50 the form of my invention shown in Fig. 2.

Referring to the drawing, *a, a* are the straps which lie directly on the body of the wearer and are worn in well-known manner by placing them over the shoulders. On these straps *a* are attached elastic metal  
55 bows *b, b* on which the bag or knapsack *c* rests. The latter may be detachably attached above to the straps *a* and hang down freely over the frame comprising the bows and straps or it may also be connected below  
60 with the straps *a, a*.

In the modified illustrative embodiment shown in Fig. 2, besides the bows *b, b* additional elastic bows *b', b'* are arranged under  
65 the same in order to be able better to distribute the forces when large knapsacks are used. For military knapsacks the elastic bows are made somewhat flat so that the knapsack does not stand off so far from the  
70 back of the wearer.

I claim:

1. A knapsack support comprising flexible straps adapted to lie directly on the back of the wearer, and resilient bowed pieces fixed at both ends to the straps and curving  
75 outward from the latter and from the back of the wearer, whereby a load resting on said pieces is held out of contact with the back.

2. A knapsack comprising flexible straps  
80 adapted to lie directly on the back of the wearer, resilient bows secured to the straps near the shoulder portions thereof and running longitudinally of the straps and curving outward therefrom, and a receptacle se-  
85 cured to the straps and resting on the bows.

3. A knapsack comprising flexible straps adapted to lie against the back of the wearer, resilient permanently bowed pieces superposed on the strap and secured thereto at  
90 both of their ends and curving outward therefrom and a receptacle resting on said bowed pieces.

In testimony that I claim the foregoing as my invention, I have signed my name in  
95 presence of two subscribing witnesses.

ALBERT SCHUMACHER.

Witnesses:

EMIL UHLMANN,  
OTTO KOEBKE.