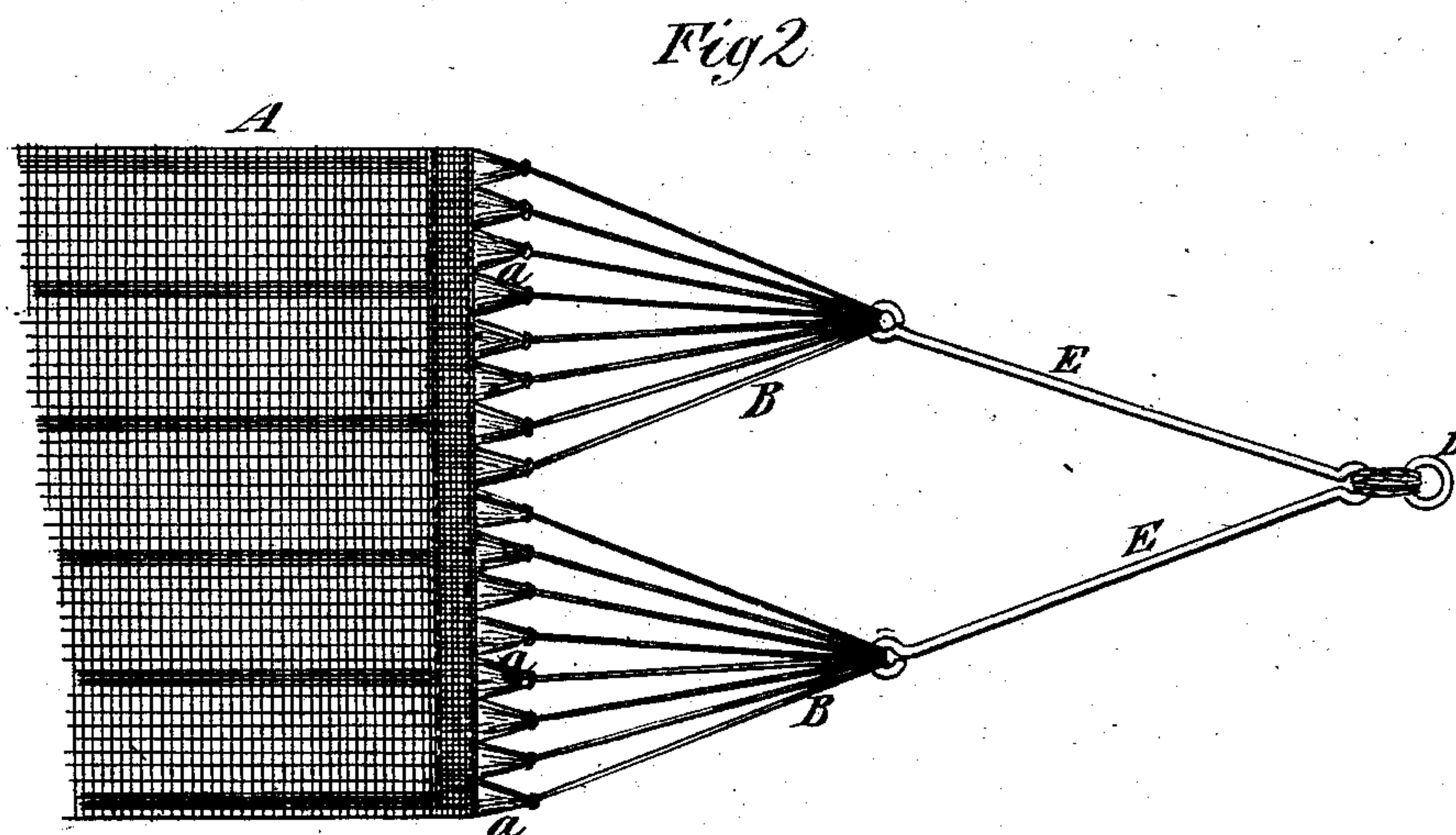
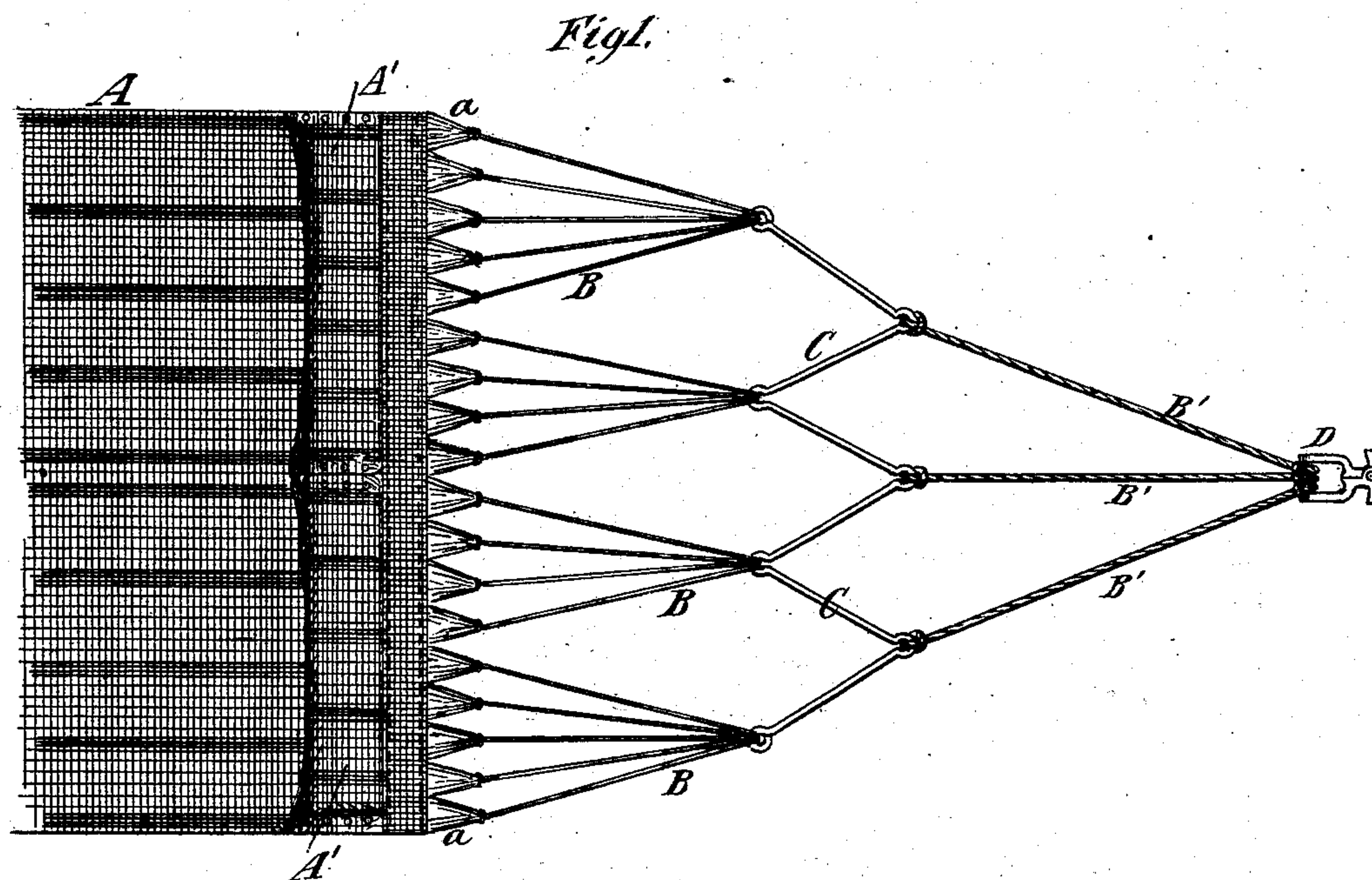


(No Model.)

I. E. PALMER.  
HAMMOCK.

No. 272,312.

Patented Feb. 13, 1883.



Witnesses  
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# UNITED STATES PATENT OFFICE.

ISAAC E. PALMER, OF MIDDLETOWN, CONNECTICUT.

## HAMMOCK.

SPECIFICATION forming part of Letters Patent No. 272,312, dated February 13, 1882.

Application filed January 2, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC E. PALMER, of the city of Middletown, in the county of Middlesex, and State of Connecticut, have invented a new and useful Improvement in Hammocks, of which the following is a specification.

The object of my invention is to provide an elastic or yielding suspension for a hammock, which will afford greater ease and comfort to the occupant or occupants of the hammock.

To this end the invention consists in the combination, with a hammock, of a spring or springs at the end or ends of the hammock.

The invention also consists in the combination, with a hammock and a suspension ring or device, of a spring or springs arranged between the hammock and said ring or device, and serving to impart the desired degree of elasticity to the suspension.

The invention also consists in the combination, with a hammock and a suspension ring or device, of groups of converging suspension-cords extending from the end of the hammock and a spring or springs placed between the outer ends of said cords and the suspension ring or device.

The invention also consists in the combination, with a hammock, of groups of converging suspension-cords extending from the ends thereof and an elastic stretcher to which the outer ends of said cords are attached, and which is adapted to yield in the direction of the width of the hammock.

The invention also consists in the combination, with a hammock, of an elastic stretcher of novel construction, a suspension ring or device, and cords connecting the said stretcher with the hammock and with the suspension ring or device, as hereinafter described.

In the accompanying drawings, Figure 1 represents a plan of the end portion of a hammock embodying my invention, and Fig. 2 represents a similar view embodying a modification of my invention.

Similar letters of reference designate corresponding parts in both figures.

A designates the hammock, which may be composed of any woven or other fabric, or of any other suitable material. The hammock shown in Fig. 1 is a double hammock adapted for two occupants, and is or may be provided

with two pillows or a double pillow, A'; but the hammock shown in Fig. 2 is a single hammock. At the end of the hammock A are or may be provided loops a, which may be formed in the operation of weaving the hammock, or may be formed in weaving a fabric which is used to form a binder or facing-piece for the end of the hammock. The loops a may be gathered in bunches or groups of as many as may be desired, and to each bunch or group of loops a suspension-cord, B, is attached. In both forms of hammock here shown the suspension-cords B converge from the loops a outward, and in Fig. 1 four groups of converging cords are shown; but in Fig. 2 only two such groups are shown.

Referring now particularly to Fig. 1, C designates an elastic stretcher adapted to yield in the direction of the width of the hammock, and in yielding to allow the hammock to stretch or lengthen slightly between its points of suspension. The stretcher here shown consists simply of a piece of wire bent into zigzag form to afford provision for yielding; but it might be constructed in any other way to give it the necessary elasticity in the direction of the width of the hammock. The suspension-cords B are connected with the angles or bends of the stretcher on one side, and to the other side of the stretcher are connected two or more cords, B', which converge toward and are connected with the suspension ring or device D. The converging-cords B may be arranged in any number of groups, and two or any number of cords B' may be used. In Fig. 2 the cords B are arranged in two groups, and are connected to the two ends of a triangular or V-shaped hanger or device, E, at the apex of which is attached the suspension ring or device D. The weight of a person in the hammock tends to draw the diverging arms or members of the hanger or device E toward each other, and the said arms there form springs to afford a yielding suspension for the hammock. When the hammock is relieved of weight the resilience of the arms of the hanger E causes them to spring or move apart into their normal position. The suspension-ring D need not be used, as the hanger or device E may be suspended directly from a hook or other device.



Although the springs here shown are well adapted for the purpose intended, other forms of springs may be used, and a spring or springs may be employed at either or both ends of the  
5 hammock.

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

1. The combination, with a hammock, of a spring or springs at the end or ends thereof, affording a yielding suspension for the ham-  
10 mock, substantially as herein described.

2. The combination, with a hammock and a suspension ring or device, of a spring or springs, arranged or interposed between the hammock  
15 and said ring or device, substantially as and for the purpose described.

3. The combination, with a hammock and a suspension ring or device, of groups of con-  
20 verging suspension cords extending from the end of the hammock, and a spring or springs

placed between the outer ends of said cords and said suspension ring or device, substan-  
tially as and for the purpose described.

4. The combination, with a hammock, of groups of converging suspension-cords extend- 25  
ing from the end thereof, and an elastic stretch-  
er to which the outer ends of said cords are con-  
nected, and which is adapted to yield in the  
direction of the width of the hammock, sub-  
stantially as and for the purpose described. 30

5. The combination, with the hammock A and suspension ring or device D, of the bent-  
wire elastic stretcher C, cords B B', connect-  
ing the said hammock and suspension-ring  
with opposite sides of the stretcher, substan- 35  
tially as and for the purpose described.

I. E. PALMER.

Witnesses:

FREDK. HAYNES,

ED. L. MORAN.