

(No Model.)

G. H. & B. F. SNAVELY.

AIR MATTRESS.

No. 379,827.

Patented Mar. 20, 1888.

Fig. 1.

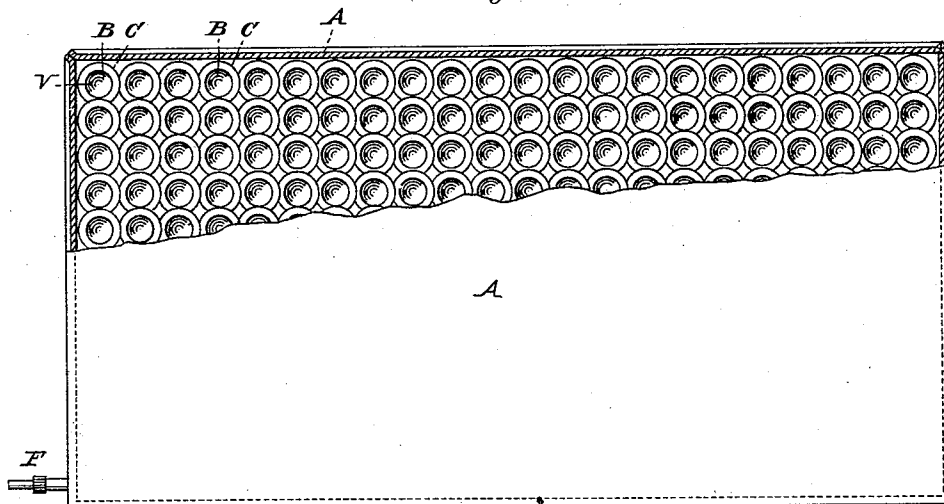


Fig. 2.

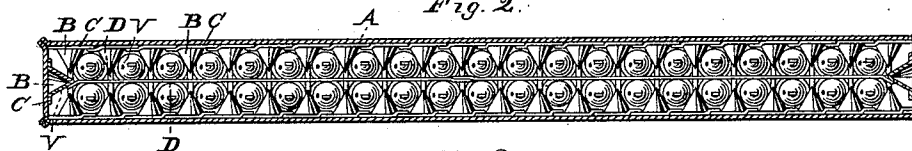


Fig. 3.

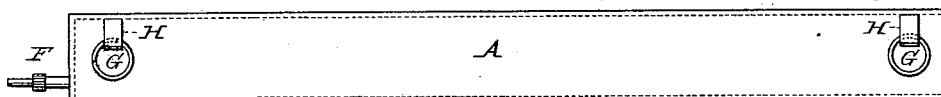
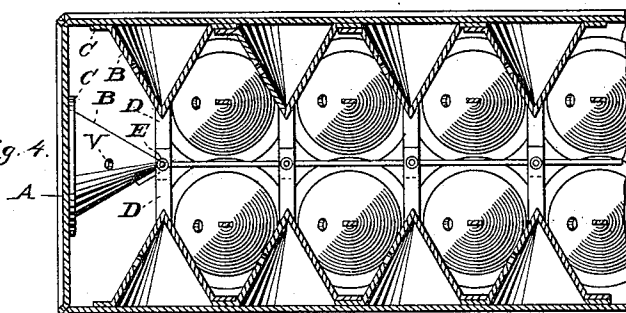


Fig. 4.



WITNESSES.

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UNITED STATES PATENT OFFICE.

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AIR-MATTRESS.

SPECIFICATION forming part of Letters Patent No. 379,827, dated March 20, 1888.

Application filed August 13, 1887. Serial No. 246,877. (No model.)

To all whom it may concern:

Be it known that we, GEORGE HERR SNAVELY, of Wrightsville, county of York, and B. FRANK SNAVELY, a resident of Harrisburg, in the county of Dauphin, and State of Pennsylvania, have invented certain new and useful Improvements in Air-Mattresses; and we do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention and is a top view, partly broken away and partly sectioned. Fig. 2 is a vertical longitudinal section. Fig. 3 is a side view thereof. Fig. 4 is a detail view and a vertical section thereof.

This invention has relation to air-mattresses; and it consists in the construction and novel combination of devices, as hereinafter set forth.

The object of the invention is to provide a well-stayed durable air-mattress that will preserve its form when filled and not have its sides corrugated or rounded between the stay-points when filled.

The mattress, though designed to be filled with hot or cold air, may, if desired, be filled with water of any suitable temperature.

In the accompanying drawings, the letter A designates the mattress-cloth, which is preferably of canvas, and is cut to form sides and ends and top and bottom in the ordinary manner.

B B represent cone-shaped or flaring attachments, which are formed with flanges C at their margins and have the straps D attached to their inner or small ends. These cones are of a suitable flexible material—such as rubber, linen, or cotton cloth—and are sewed by their flanged margins to the top and bottom, sides and ends of the mattress on the inside thereof, and the straps connect opposite cones, forming with said cones stays which tie the walls of the mattress together in three different

directions. In this manner its form is preserved under the pressure of the air-filling, and the mattress may be made of various degrees of hardness. As the air enters and spreads the flexible cones, the sides to which the bases of the cones are attached can be bulged outward but little within or between said bases, which are circular and of comparatively small extent, so that the usual transverse or longitudinal corrugations in similarly-stayed mattresses are avoided.

In the construction of this mattress the flanges C of the flaring attachments B are lapped in the sewing, in order to strengthen the seams and to provide for the introduction of as many of these devices as the mattress-walls can accommodate. Each cone is provided with a perforation, V, for air communication.

The straps D are preferably separately attached to each cone, and connected by means of eyelet-rivets, as at E, or by other suitable fastenings which will not become detached when the walls are pressed together.

In order to provide for filling the mattress, the common air-valve tube—such as is used for air-cushions and life-preservers—may be employed; or a special tube, F, may be employed having a shut-off valve and a connection for attachment to an air-pump.

The corners of the mattress may be provided with rings G, which are attached by tabs H, and are designed to facilitate the application of exterior stays, when advisable, to hold the corners down to the bedstead.

The mattress is designed to be lined with rubber, which is applied after the attachments are sewed in place and the mattress otherwise completed, except where the seam is necessarily left open to facilitate the application of the gum. Then this seam is closed in an airtight manner and the mattress is finished.

Having described this invention, what we claim, and desire to secure by Letters Patent, is—

1. An air-mattress having the conical inside attachments, B, of suitable flexible material, and the stay-straps D, connecting opposite attachments, substantially as specified.

2. An air-mattress having the perforated cone-shaped attachments B, of suitable flexible material, to the walls of the mattress, and the stay-straps connecting opposite attachments, substantially as specified.

5 3. A rubber-lined air-mattress having flaring cone-shaped attachments B, of suitable flexible material, lapped at their base margins, stay-straps D, connecting opposite attach-

ments, and exterior stay-rings, substantially as specified. 10

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE HERR SNAVELY.

B. FRANK SNAVELY.

Witnesses:

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