

H. E. SMITH.
Mattresses.

No. 155,989.

Patented Oct. 13, 1874.

Fig: 1

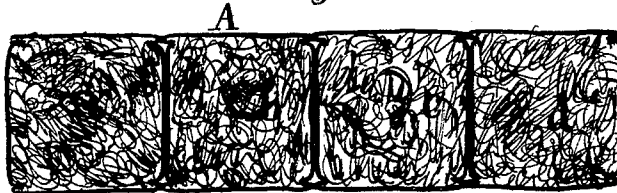
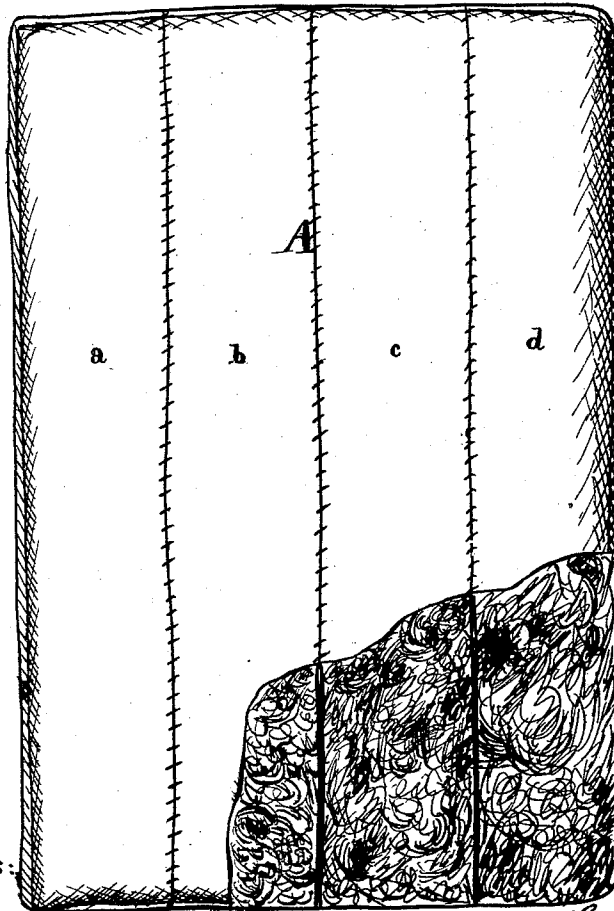


Fig: 2.



Witnesses:

Henry Gentry
Chas. Wahlen.

Inventor:

Hamilton E. Smith
pr
Van Santvoord & Hooff
Attys

UNITED STATES PATENT OFFICE.

HAMILTON E. SMITH, OF NEW YORK, N. Y.

IMPROVEMENT IN MATTRESSES.

Specification forming part of Letters Patent No. **155,989**, dated October 13, 1874; application filed July 3, 1874.

To all whom it may concern:

Be it known that I, HAMILTON E. SMITH, of the city, county, and State of New York, have invented a certain new and useful Improvement in Mattresses, of which the following is a specification:

This invention is illustrated in the accompanying drawing, in which Figure 1 represents a transverse section of my mattress. Fig. 2 is a plan or top view of the same partly in section.

This invention relates to certain improvements in that class of mattresses in which the stuffing material is arranged in separate compartments, such as in the Letters Patent granted to me May 20, 1873. In said patent I employed a series of suitably-shaped columns arranged vertically side by side, within which the stuffing material was placed.

The object of my present invention is to improve upon such; and to such end it consists in constructing a mattress of a series of separate independent tubular sections, each of such sections being provided with its own covering or envelope, which, after being thus constructed, are arranged horizontally in sufficient number to form a mattress, and then united together, so as to leave their top and bottom or bearing-surfaces in the same true plane, in such a manner that, by the partitions between the tubes, the stuffing of the mattress is prevented from shifting, and, if the envelope or ticking of the tubes becomes punctured, the stuffing of this punctured tube only can escape while that of the remaining tubes is securely retained.

The ticking of my mattress is rendered water-proof, so that the mattress can be used on board of vessels, or other places exposed to moisture, without allowing the moisture to penetrate to the stuffing.

In the drawing, the letter A designates a mattress, which is composed of four (more or less) tubular sections, *a b c d*, each section being made separate from the others, and provided with its own ticking or envelope.

When a sufficient number of tubes are ready

to make up a mattress, I unite the same by stitching, or by any other suitable means, and the mattress is ready for use.

The tubular sections may be placed in the direction of the length of the mattress, as shown in the drawing, or they may be placed transversely to the length of the mattress, though I prefer placing them lengthwise, as shown.

In a mattress made according to this invention, the stuffing of each tube is separated entirely from the stuffing of the remaining sections; and when the mattress is used the stuffing is prevented from shifting, so that it retains an even surface. Furthermore, if one of the tubes becomes punctured, the stuffing of this injured tube only can escape while the stuffing of the remaining tubes is securely retained.

The tick of my mattress, or the envelopes of the several sections are rendered water-proof by treating them with a compound made of paraffine and bees-wax, or with any other compound suitable for this purpose, so that when the mattress is used on board of a vessel, or in any other place where the same is liable to become exposed to moisture, the water-proof ticking will protect the stuffing against the influence of moisture, and a mattress is obtained which is particularly adapted for use on ships.

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

The combination, in a mattress, of a series of horizontal independent tubular sections, each of said independent sections having its own envelope united together, as set forth, to leave the top and bottom or bearing surfaces true planes, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand.

HAMILTON E. SMITH.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.