R. W. Geraghty,

Mattress Ventilator.

No. 27,667. Patented Mar. 27, 1860.

Fig. 1.

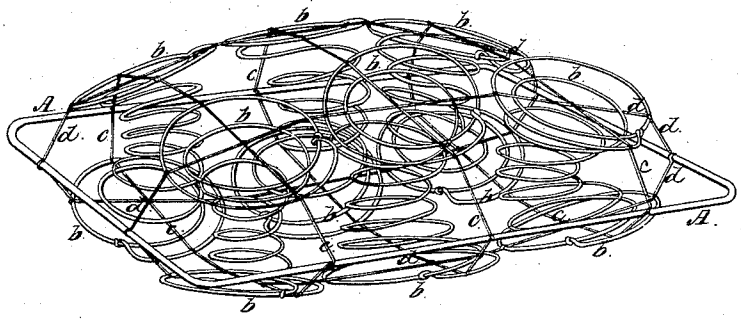
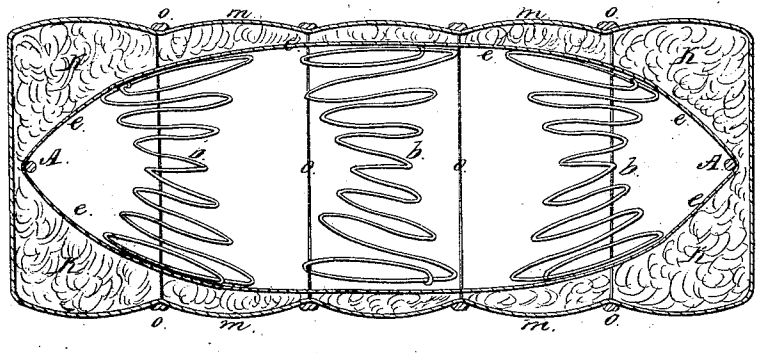


Fig. 2.



Witnesses:
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ROBERT W. GERAGHTY, OF NEWARK, NEW JERSEY, ASSIGNOR TO HIMSELF AND WILLIAM M. SIMPSON, OF SAME PLACE.

VENTILATING SPRING MATTRESS.

Specification of Letters Patent No. 27,667, dated March 27, 1860.

To all whom it may concern:

Be it known that I, ROBERT W. GERAGHTY, of the city of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Self-Ventilating Spring Mattress and Cushion; and I do hereby declare that the following is a full, clear, and exact description of the nature of my said invention, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1, is a perspective view of the inner wire springs and frame surrounding and supporting the same, showing their arrangement and combination together, and Fig. 2, is a perpendicular section of the whole mattress and cushion, showing the springs in the interior, also a section of the frame sustaining and inclosing said springs also the sacking or casing of said spring and frame, together with the outer surrounding of hair or other equivalent substance, also the tick or outer cover and finally the quilting thread by which the whole is tacked together.

The same letters indicate like parts in both drawings.

In Fig. 1, A, is a frame of iron or other suitable material and of any desired size and form. *b*, *b*, *b*, *b*, *b*, are spiral springs, such substantially as are now used in sofas and chairs. *c*, *c*, *c*, *c*, *c*, is a cord passing around the frame A, and secured on each side thereto and also securely attached above and below to the top and bottom or both ends of each of the springs *b*, *b*, *b*, *b*, *b*. *d*, *d*, *d*, *d*, *d*, is another cord or continuation of *c*, *c*, *c*, *c*, *c*, and also passes around the frame A, in a direction at right angles or contrary to *c*, *c*, *c*, *c*, *c*, and is also securely attached to the ends of the frame A, and also to the top and bottom or each end of the springs *b*, *b*, *b*, *b*, *b*. The result of this arrangement and combination is the producing of a single light, durable and elastic spring successfully inclosed within the single frame A, and well adapted independently of any other contrivances for all the offices to which any one of its component springs *b*, *b*, *b*, *b*, *b*, could be subjected. The cords *c*, *c*, *c*, *c*, *c*, and *d*, *d*, *d*, *d*, *d*, hold the springs *b*, *b*, *b*, *b*, *b*, in their appropriate position and ready at all times for action on either side, and from above or below, while the same cords also sustain the said spring at all times in exact and appropriate relation to the main frame A.

It will be observed that the springs *b*, *b*, *b*, *b*, *b*, in Fig. 1, are not adjusted in perpendicular position but are slightly curved from a right line as represented. This arrangement is for the purpose of providing for the greater height of the whole combined springs at the center in such a manner as that when the whole is compressed, each separate spring will then be brought into perpendicular position and consequent appropriate action.

In Fig. 2, is shown the sack E, or outer covering of the whole of the combined springs *b*, *b*, *b*, *b*, *b*, and frame A, Fig. 1. K, is the hair or other equivalent substance which is packed in around the combined springs and frame Fig. 1, and outside of the sack or covering E. *m*, is the outer ticking or cover of the mattress or cushion, and *o*, *o*, *o*, *o*, *o*, are the quilting threads by which the whole mattress or cushion is tacked or held together.

The whole of Fig. 1, being inclosed within the sack or cover E, and the hair K, and outer ticking or covering *m*, combine together all the excellency of the ordinary hair mattress with all the elasticity and desirability of the springs. In addition to this it is a perfectly self ventilating and therefore healthy bed or cushion. The weight of the sleeper or sitter, and each respiration or motion which he instinctively makes so affects the mattress or cushion that it acts precisely like a bellows or the lungs, causing the air to be drawn in, and forced out equally in every direction at the top and bottom and at the sides and ends. This process requires no thought or care and is most thoroughly and perfectly done. The whole bed or cushion being thus kept cool and healthy, the mattress or cushion will not need to be done over nor often to be turned or changed. It is also light and being the same on each side it will prove to be durable in use, and require little or no attention, recommending itself

especially in every respect as a mattress for the uses of the sick room and for invalids and the infirm.

What I claim as my own invention and desire to secure by Letters Patent of the United States is—

The combination and arrangement of the frame A with the springs *b*, and cords *c* and *d*, sack *e*, hair K and outer cover *m*, substantially as and for the purpose specified.

ROBERT W. GERAGHTY.

Witnesses:

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