

No. 667,622.

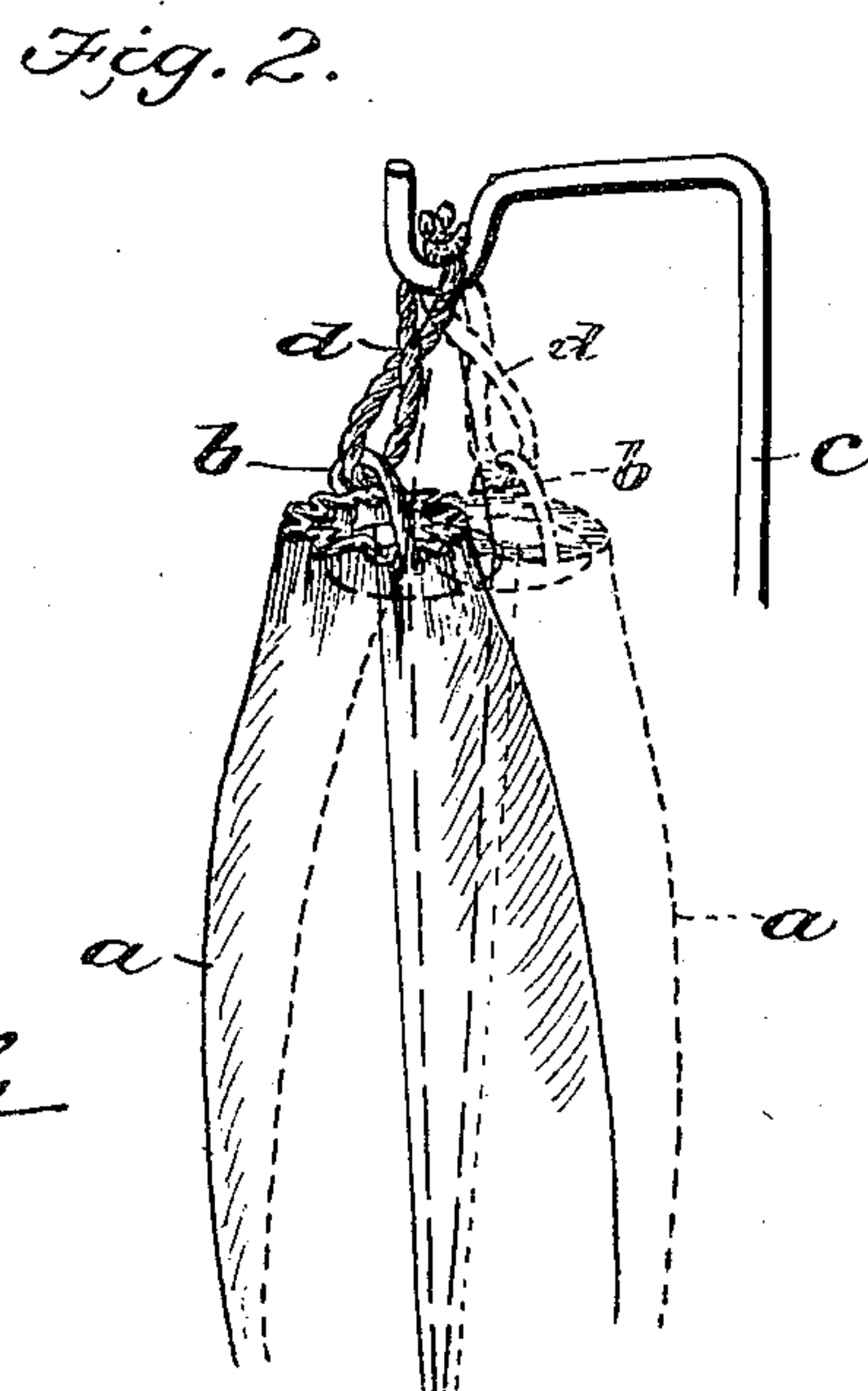
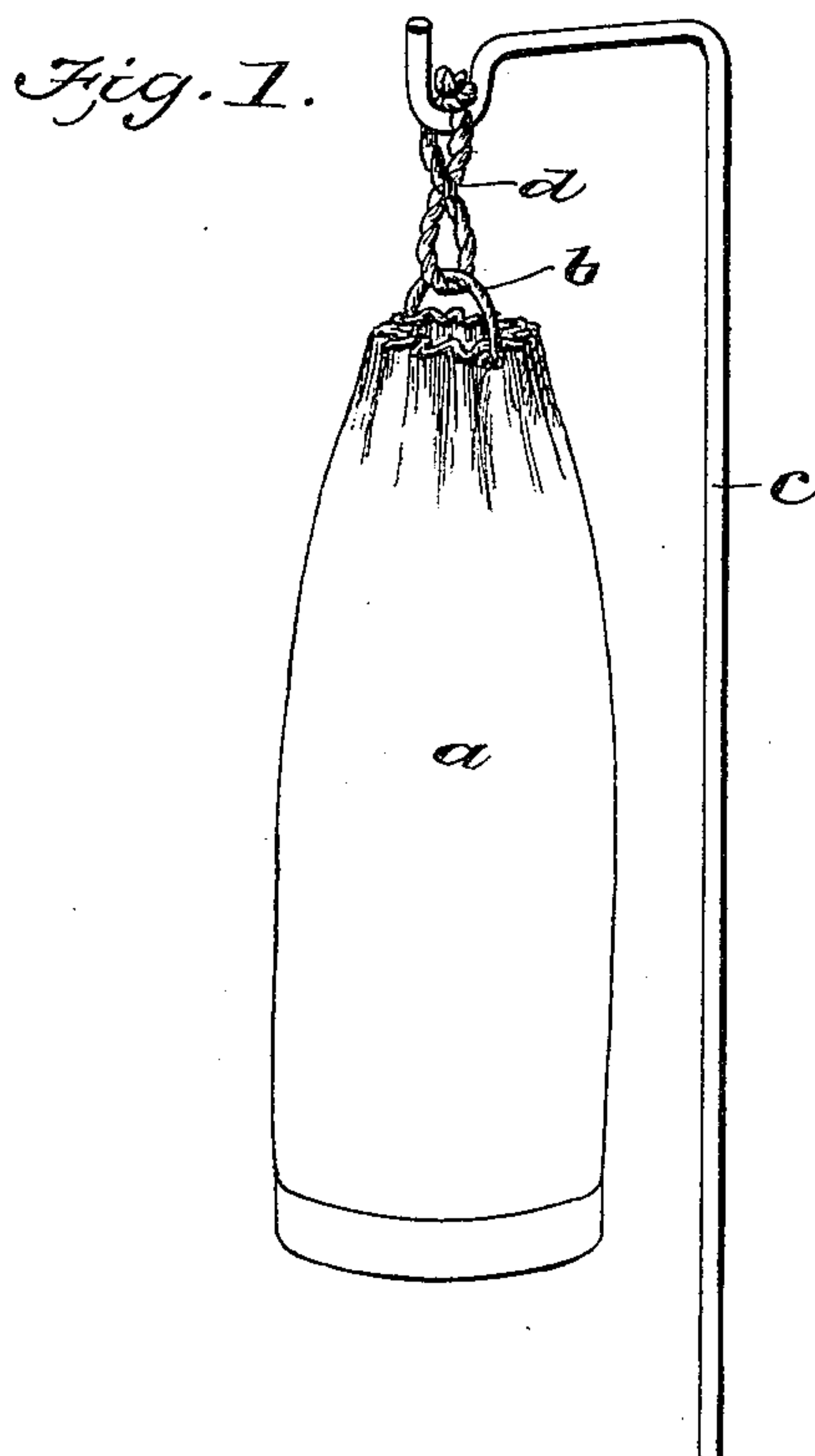
Patented Feb. 5, 1901.

W. D. HANN.

SUSPENDING ATTACHMENT FOR MANTLES.

(Application filed Nov. 5, 1900.)

(No Model.)



WITNESSES:

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SUSPENDING ATTACHMENT FOR MANTLES.

SPECIFICATION forming part of Letters Patent No. 667,622, dated February 5, 1901.

Application filed November 5, 1900. Serial No. 35,481. (No model.)

To all whom it may concern:

Be it known that I, WARREN DAVIS HANN, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have made certain new and useful Improvements in Suspending Attachments for Mantles, of which the following is a specification.

The means of suspension heretofore provided for incandescent mantles of the Welsbach type have been of such a nature that the mantles were liable to injury and destruction when being transported or used. I have discovered an effective remedy whereby such injury and destruction are avoided and the life of the mantles prolonged.

My invention consists, broadly stated, in so suspending mantles that their upper portion is allowed freedom of vibration or movement laterally in all directions.

In carrying out my invention I provide a suspending attachment consisting of an asbestos or other incombustible device, which is made of such length and attached to the ordinary rigid loop of a mantle and to the hook of the ordinary rigid wire or rod support in such a manner as to be free to swing laterally in all directions and allow corresponding movement of the top portion of the mantle.

The details of construction, attachment, and operation will be more fully understood by reference to the accompanying drawings, in which—

Figure 1 is a side view of a mantle provided with my improved attachment and suspended from the usual rigid support. Fig. 2 is a side view illustrating the operation of the suspending attachment.

The body *a* of the mantle is constructed and provided with a rigid incombustible loop *b* in the usual way. It is suspended free from the hook of the ordinary rod or wire support *c* by means of a loop *d*, formed of an asbestos cord or string and having a length much greater than that of the rigid loop, preferably about half an inch. The said loop *d* is shown crossed or twisted; but it may be used open with practically the same result. The loop *d* passes through the rigid loop *b* and is preferably free to move—*i. e.*, slide thereon. It will be seen by this construction and arrangement of the means of suspension that the up-

per portion of the mantle has perfect freedom of movement—*i. e.*, vibration—laterally in all directions, as indicated in Fig. 2, and it has been demonstrated by practical use that such movement takes up or compensates for the vibration, jar, or shaking which is so injurious and destructive to mantles suspended in the usual way.

It is to be understood that the term “loop,” as hereinbefore used, indicates in its broader signification an extended, incombustible, connecting, and suspending device adapted to allow the described free lateral movement of the mantle and is not restricted to a loop proper.

What I claim is—

1. An incandescent mantle provided with the usual incombustible rigid loop and a suspending-loop having greater length than the first-named loop, to which it is attached, the same being adapted for connection with a rigid support so as to suspend the mantle a considerable distance below the rigid support and allow lateral swing or vibration of the mantle in all directions, as and for the purpose specified.

2. The incandescent mantle having the usual rigid incombustible top loop, and an incombustible suspending-loop which is attached to said rigid loop and is adapted for hanging from the hook of a rigid support, as specified.

3. As an improved article of manufacture, the incandescent mantle, having the usual rigid loop and a longer suspending-loop which is attached to said rigid loop and has free movement thereon, the same being adapted for engagement with the hook of a rigid support, as shown and described, to operate as specified.

4. The combination with a rigid support, of an incandescent mantle having the usual rigid top loop and the flexible incombustible suspending-loop passing through said rigid loop and hanging from the rigid support so as to allow free lateral vibration in all directions, as shown and described.

WARREN D. HANN.

Witnesses:

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