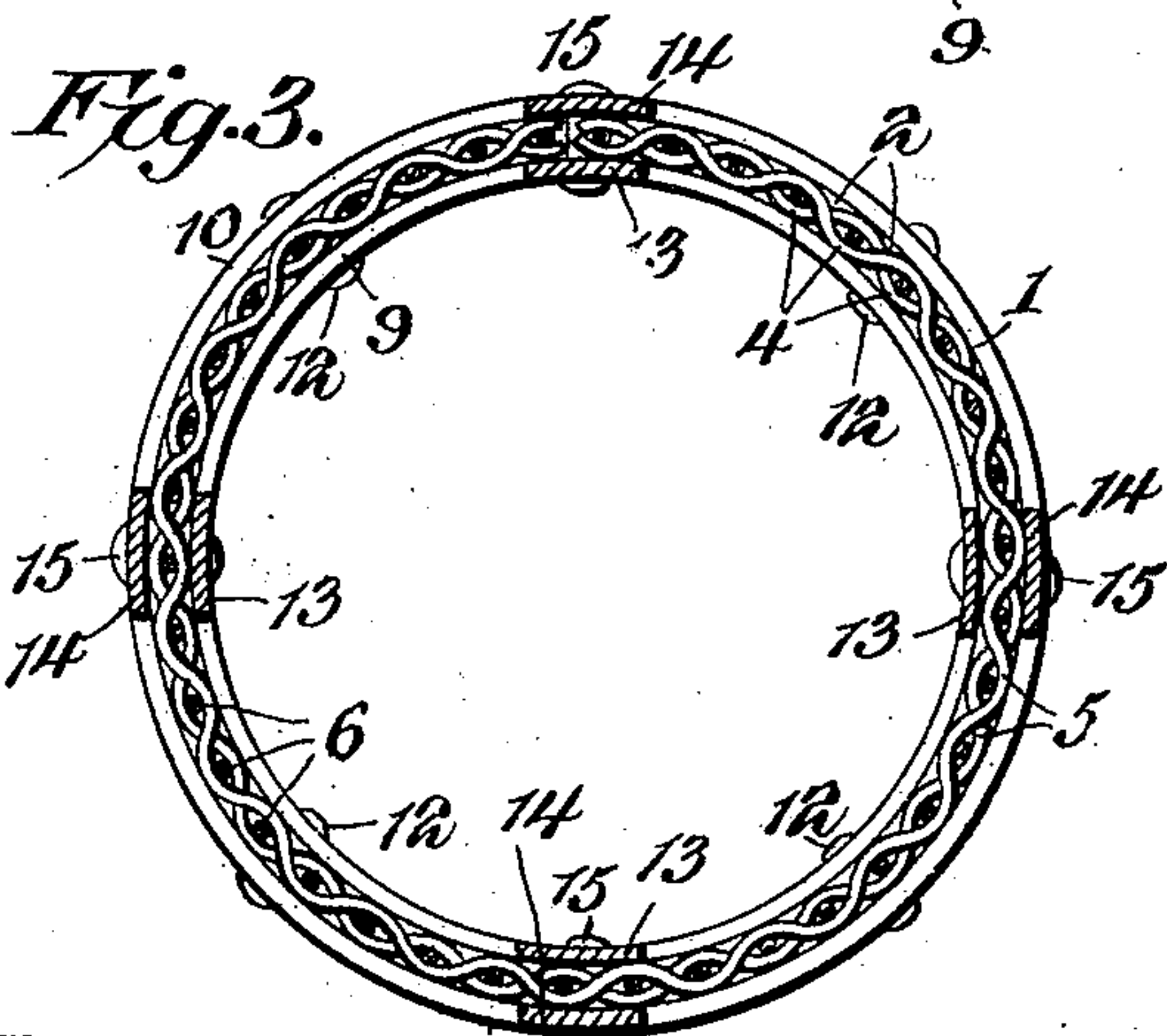
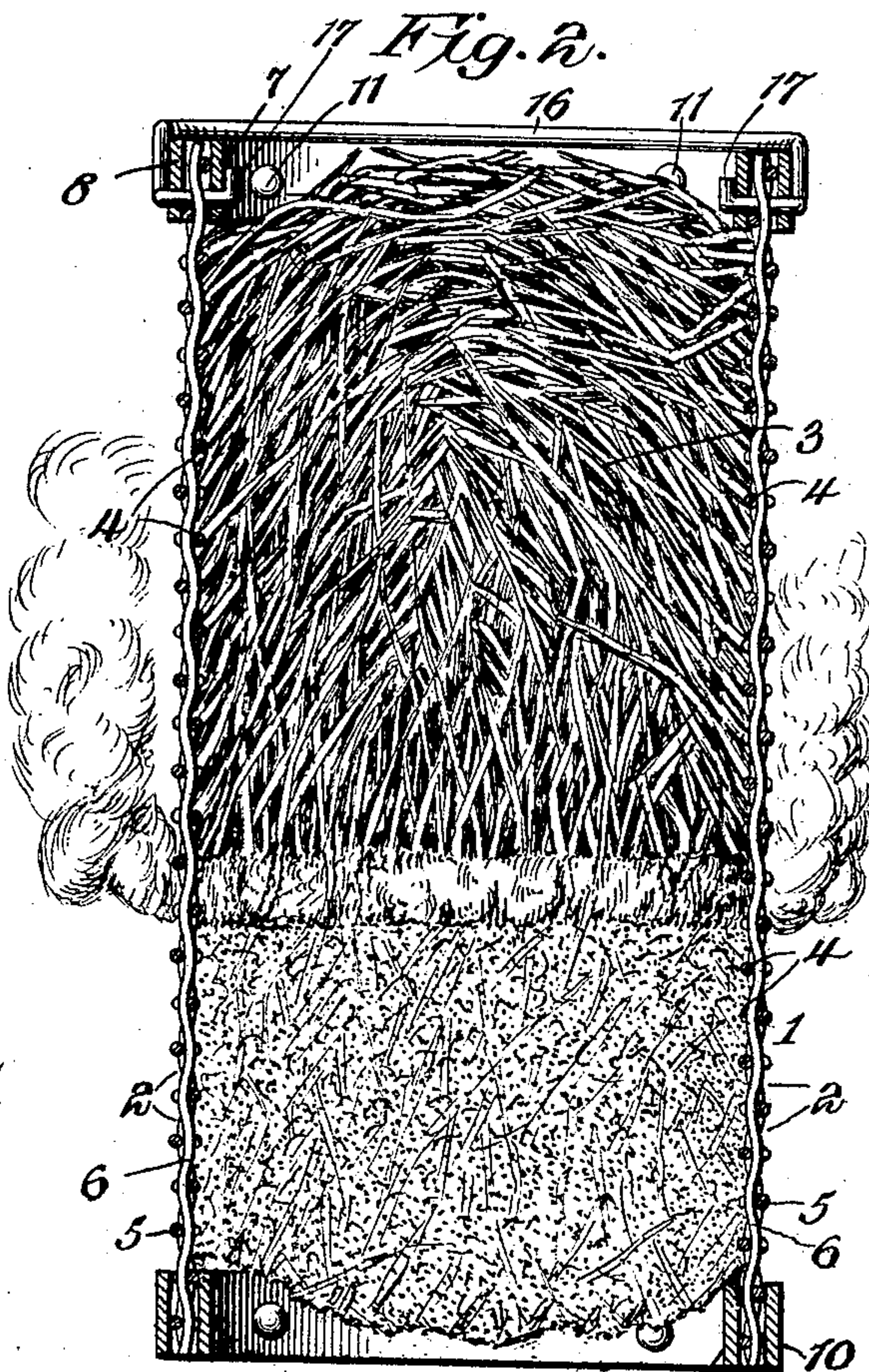
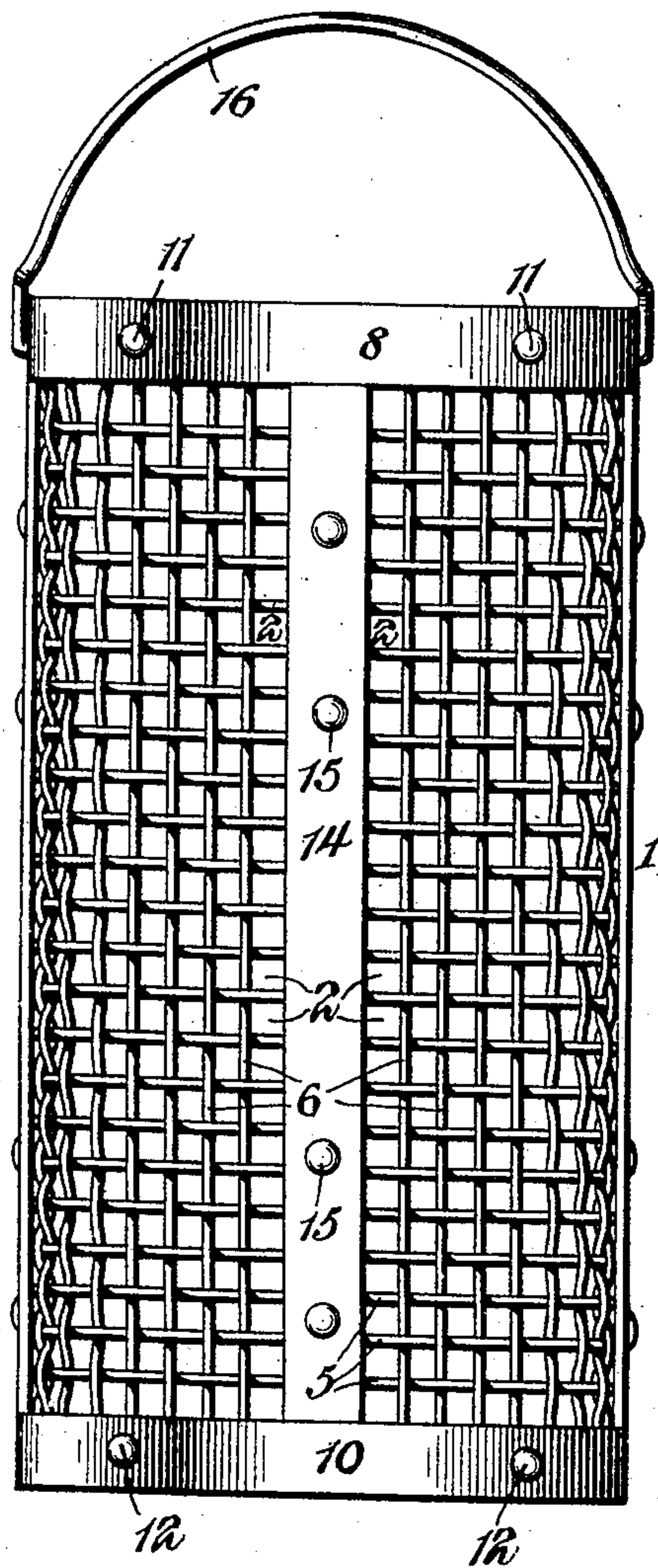


No. 835,137.

PATENTED NOV. 6, 1906.

F. LAUTENSCHLAGER.  
FUMIGATOR.  
APPLICATION FILED NOV. 7, 1905.

Fig. 1.



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# UNITED STATES PATENT OFFICE.

FRED LAUTENSCHLAGER, OF CHICAGO, ILLINOIS.

## FUMIGATOR.

No. 835,137.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed November 7, 1905. Serial No. 286,291.

*To all whom it may concern:*

Be it known that I, FRED LAUTENSCHLAGER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Fumigator, of which the following is a specification.

The invention relates to improvements in fumigators.

Heretofore fumigators have been constructed for burning tobacco-stems for destroying insect life, but hot coals, lamps, and similar means have been employed for maintaining the proper combustion. This has not only been found dangerous on account of fire, but also undesirable because of fumes other than those emitted by the tobacco-stems being given off by the devices to the detriment of plant life. Also with such fumigators there has been both undue heat and a too rapid burning or consumption of the tobacco-stems.

The object of the present invention is to obviate the above objections and to provide an exceedingly simple and inexpensive fumigator of great strength and durability designed especially for the use of florists for fumigating greenhouses and adapted to be advantageously employed in conservatories and other smaller places where plants are kept.

A further object of the invention is to provide a fumigator of this character adapted to produce a steady burning of the tobacco-stems without flame, whereby it will be capable of emitting tobacco fumes of light density and free from ammonia for a long period of time.

Another object of the invention is to provide a fumigator of this character which after it has been filled with tobacco-stems will require no attention until the charge is entirely consumed.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in the form, proportion, size, and minor details of construction within the scope of the claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a side eleva-

tion of a fumigator constructed in accordance with this invention. Fig. 2 is a vertical sectional view of the same, showing a partially-consumed charge of tobacco-stems. Fig. 3 is a horizontal sectional view.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a cylindrical open-ended casing or receptacle constructed of woven wire to provide interstitial apertures 2 for the free access of air to properly support combustion and to secure a complete burning of an entire charge of tobacco-stems 3. The woven wire is also adapted to prevent any exterior flame, so that the charge of tobacco-stems will be slowly consumed and will emit at the point or zone of combustion tobacco fumes of light density, which fumes will be given off uniformly at all sides of the fumigator.

In order to prevent the tobacco-stems from dropping from the upper portion of the casing to the lower portion thereof after a charge has been partially consumed, the casing is provided on its interior at intervals with projections 4, forming supporting-shoulders for the tobacco-stems. These projecting portions are formed by weaving heavy horizontal wires 5 around heavy vertical wires 6, as clearly indicated in Fig. 3 of the drawings, and the interiorly-arranged portions of the horizontal wires form horizontal projecting portions which are engaged by the tobacco-stems and which support the latter and prevent the same from dropping to the bottom of the fumigator when a charge has been partially consumed. The interiorly-arranged supporting means also obviate the necessity of providing a grate for supporting the tobacco-stems within the fumigator.

The casing is reinforced at the top by inner and outer metallic hoops or bands 7 and 8 and at the bottom by similar hoops or bands 9 and 10. These hoops or bands are arranged in pairs and are secured in place by rivets 11 and 12, which pierce the said hoops or bands and which extend through the woven-wire fabric of which the casing or receptacle is constructed. The casing or receptacle is also reinforced by inner and outer vertical bars 13 and 14, secured to the receptacle or casing by rivets 15 or other suitable fastening devices and extending from the upper to the lower hoops or bands, the ends of the vertical bars 13 and 14 being fitted against



the adjacent edges of the hoops or bands. By this construction a fumigator of great strength and durability is provided.

The fumigator is provided at the top with a bail 16, having its terminals 17 passed through perforations of the upper hoops or bands and bent against the inner hoop or band, as clearly shown in Fig. 2 of the drawings. The tobacco-stems are ignited at the bottom, and the free access of air through the apertures of the casing or receptacle will maintain combustion and prevent the tobacco-stems from becoming extinguished until they are entirely consumed. After a charge has been consumed the ashes are removed and may be advantageously utilized in the preparation of fertilizer.

It will be seen that the fumigator is exceedingly simple and inexpensive in construction, that it obviates the necessity of employing a grate and a fire—such as hot coals, lamps, or the like—for maintaining combustion within it, and that it prevents the tobacco from flaming, and thereby generating and giving off the dangerous ammonia-gases so injurious to plant life. Furthermore, it will be clear that it prevents undue heat, which is also injurious to plant life, and as there can be no exterior flame it is absolutely fireproof.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A fumigator consisting of an open-ended receptacle adapted to receive a mass of tobacco-stems, and provided at the inner faces of its walls with fixed means for engaging the contiguous tobacco-stems, said means forming the sole support for the mass, and adapted to prevent the same, when partially consumed, from falling.

2. A fumigator consisting of an open-ended receptacle adapted to receive a mass of tobacco-stems, and provided in its walls with apertures for the passage of air and adapted

to prevent an exterior flame, said receptacle being also provided at the inner faces of its walls with means for engaging the contiguous stems, the said means forming the sole support for the mass and adapted to prevent the same, when partially consumed, from falling.

3. A fumigator consisting of an open-ended receptacle adapted to receive a mass of tobacco-stems and provided at the inner faces of its walls with fixed shoulders for engaging the contiguous stems, said shoulders constituting the sole support for the mass, and adapted to prevent the same, when partially consumed, from dropping to the bottom of the fumigator.

4. A fumigator consisting of an open-ended receptacle adapted to receive a mass of tobacco-stems and constructed of woven wire forming interstitial apertures, and having inwardly-projecting horizontal wires forming shoulders and arranged to be engaged by the contiguous stems, said shoulders forming the sole support for the mass and adapted to prevent the same, when partially consumed, from dropping to the bottom of the fumigator.

5. A fumigator comprising an open-ended receptacle adapted to receive a mass of tobacco-stems, and constructed of woven wire providing interstitial apertures and forming projecting shoulders arranged to engage the adjacent stems for supporting the mass within the receptacle, upper and lower hoops or bands secured to the woven wire, bars extending between the upper and lower hoops or bands, and a bail secured to the upper end of the receptacle.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

FRED LAUTENSCHLAGER.

Witnesses:

ALEXANDER J. GUTTMAN,  
WM. A. TAYLOR.