H. IRELAND.

WIRE SHOCK BINDER.

APPLICATION FILED MAR. 12, 1918.

1,277,077. Patented Aug. 27, 1918.

Fig. 1.

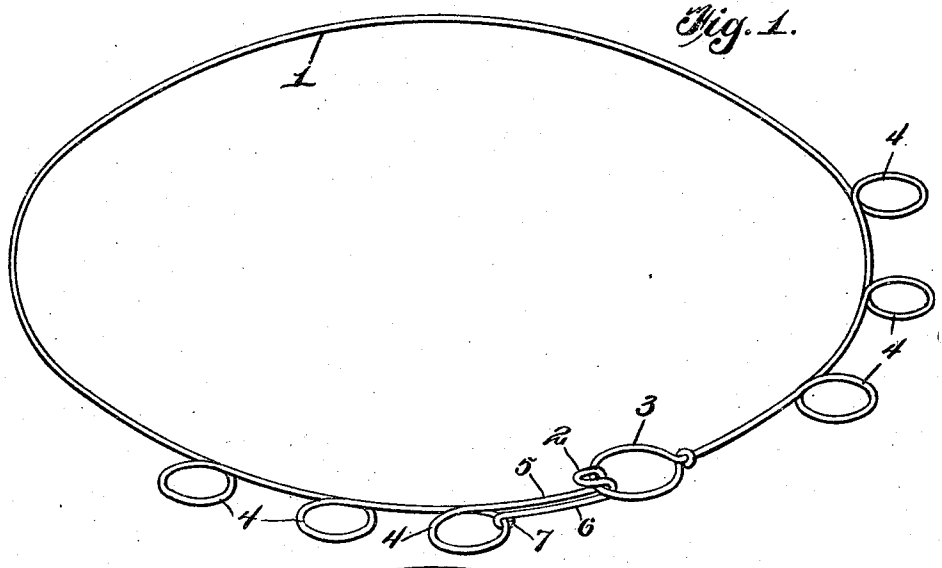
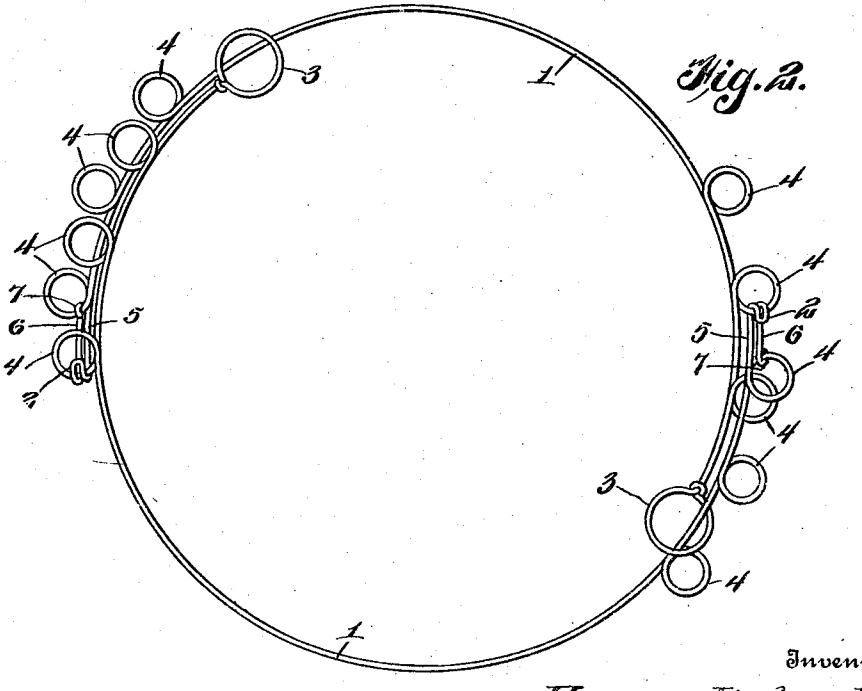


Fig. 2.



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WIRE SHOCK-BINDER.

1,277,077. Specification of Letters Patent. Patented Aug. 27, 1918.

Application filed March 12, 1918. Serial No. 221,981.

To all whom it may concern:

Be it known that I, HARVEY IRELAND, a citizen of the United States, residing at North Emporia, in the county of Greensville and State of Virginia, have invented new and useful Improvements in Wire Shock-Binders, of which the following is a specification.

This invention relates to a band or binder for shocked field corn, the object of the invention being to provide a spring wire binder band which is simple of construction, durable, reliable and efficient in use, and adapted to be manufactured and sold at a comparatively low cost.

A further object of the invention is to provide a wide binder band which may be expanded in position and which will automatically contract as the corn dries out to keep the shock tight.

A still further object is to provide a band any number of which may be connected to form a band of any desired size to suit any preferred size of shock in which the corn is to be bound.

The invention consists of the features of construction, combination and arrangement of parts, hereinafter fully described and claimed, reference being had to the accompanying drawing, in which:—

Figure 1 is a perspective view of a corn band or binder constructed in accordance with my invention.

Fig. 2 is a view showing the manner of joining two or more bands to make a band of any desired length.

In carrying my invention into practice I provide a binder comprising a band 1 of resilient spring wire, and made of any suitable length for the purpose, the band being applied in use about the shock of corn to be bound and the ends thereof connected to hold it securely in applied position. To this end, one of the extremities of the band is provided with a backturned hook 2, and the other end of the band is provided with a loop or eye 3 for engagement with the hook, whereby the ends of the band may be coupled in such a manner as to enable them to be easily and conveniently engaged and disengaged.

The wire band is provided at suitable intervals with resilient expansible and contractible loops or coils 4, which loops or coils 4 are formed by bending or twisting the wire upon itself, such coils being projected in an outward direction from the body of the band to allow the band body to come snugly into contact with the surface of the shock. These coils 4 are adapted to be contracted to a desired degree to allow the band itself to be expanded and placed under proper tension about the shock, whereby the corn may be tightly bound together. When the corn dries out and shrinks, and a consequent contraction of the shock occurs, the coils 4 expand and thereby contract the band, drawing it closely to the shock and compensating for the contraction of the shock, thus keeping the band firmly and securely applied at all times.

In the construction disclosed I have shown one of the coils 4 disposed in proximity to the end of the band provided with a hook 2, and as illustrated this hook is formed by a bent continuation or doubled portion of the wire looping from such coil, one portion of the continuation of the wire forming a relatively arranged arm 5 extending from the coil and the other portion of the continuation an arm 6 which extends backwardly to the coil and is provided with a connecting hook 7 engaging the same, whereby a spring and durable type of coupling hook 2 is produced.

In the use of the band, it will of course be understood that it is expanded around the shock and held by coupling the ends thereof together, the band being preferably applied and drawn to a high tension by means of a straining lever or other suitable tool, thus contracting the coils 4, which will subsequently expand as the shock shrinks to contract the band about the shock. By means of the construction disclosed any number of bands may be connected together, as illustrated, for example, in Fig. 2, thus enabling a band of any desired length to fit about a shock of any desired diameter to be formed. In thus connecting two bands the end of one of the bands provided with the hook 2 is passed through the eye 3 at one end of the other band and the hook 2 of the first-named band engaged with one of the eyes 4 on the adjacent end of the second-named band, the hook 2 on the opposite end of the second-named band being engaged with any one of the eyes 4 on the opposite end of the first-named band to secure the multiple band about the shock. It will be observed that the construction of the binder band is simple, that it may be made and sold

at a comparatively low cost, that it is durable and may be employed for a long period, and that, while adapted to securely hold the corn bound, it may be at any time easily and conveniently removed in an obvious manner.

Having thus fully described my invention, I claim:—

1. A corn shock binder comprising a resilient wire band having an eye at one end thereof and provided at points with contraction and expansion coils, one of said coils being located at the opposite end of the band, and the wire at such end of the band being extended and formed to provide a hook, having a reinforcing connection with said coil, said hook being adapted for engagement with the eye at the first named end of the band.

2. A corn shock binder comprising a resilient wire band having at one end an eye and provided at points with contraction and expansion coils, one of said coils being located at the opposite end of the band, and the wire at such end of the band being extended beyond said coil and formed to provide inner and outer arms and a hook to engage the eye, the outer arm being connected at its extremity with the aforesaid coil.

In testimony whereof I affix my signature.

HARVEY IRELAND.