

W. A. SUTPHIN.
Grain-Band.

No. 196,950.

Patented Nov. 6, 1877.

Fig. 1.

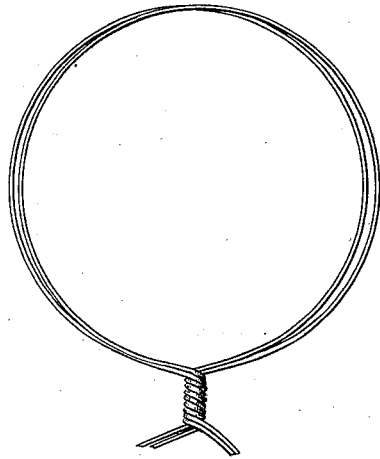
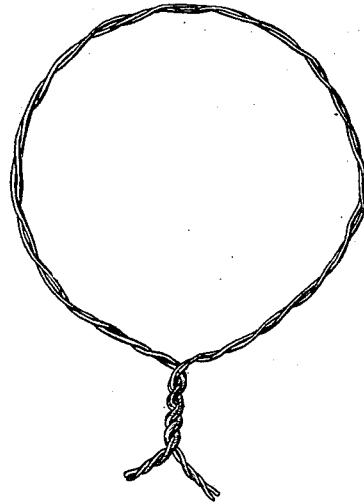


Fig. 2.



Attest:
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WILLIAM A. SUTPHIN, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN GRAIN-BANDS.

Specification forming part of Letters Patent No. **196,950**, dated November 6, 1877; application filed November 1, 1877.

To all whom it may concern:

Be it known that I, WILLIAM A. SUTPHIN, of Washington city, District of Columbia, have invented a new and Improved Grain-Band, which improvement is fully set forth in the following specification and accompanying drawing, in which—

Figure 1 represents a grain-band composed of two parallel or untwisted wires, the two ends of the band being twisted together to secure it upon the sheaf; and Fig. 2 shows a modification consisting of two wires slightly twisted, forming a wire string or twisted-wire band, preparatory to applying the same to the gavel.

The object of my invention is to furnish a grain-band which is more flexible than the single-wire band now used, and consequently more easily applied and twisted, and more firmly secured when the ends are all twisted together, because of the interlocking or winding of the several strands one upon another.

I use a duplex or double wire in binding grain, and proportion the size of the wire to the amount of strength required.

I find that No. 26 wire, when doubled or

used with two strands, is about the size required to bind grain. The particular size used, however, may be varied, as found necessary or most desirable.

In practice I find the double-wire band, untwisted, as represented in Fig. 1, to be very effective, easily applied, and the ends, when twisted, more firmly secured, because of the wrapping or winding of the several ends upon each other.

The same advantages attach to the duplex twisted band represented in Fig. 2.

It is evident that a greater number of wires may be employed by using a smaller size without departing from my invention.

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

A duplex or double wire grain-band, substantially as described.

WM. A. SUTPHIN.

Witnesses:

L. L. BOND,
JOHN C. TASKER.