No. 864,491. PATENTED AUG. 27, 1907.

L. E. SNYDER.

STEMMER FOR CLOVER HULLERS.

APPLICATION FILED AUG. 3, 1906.

Fig. 1.

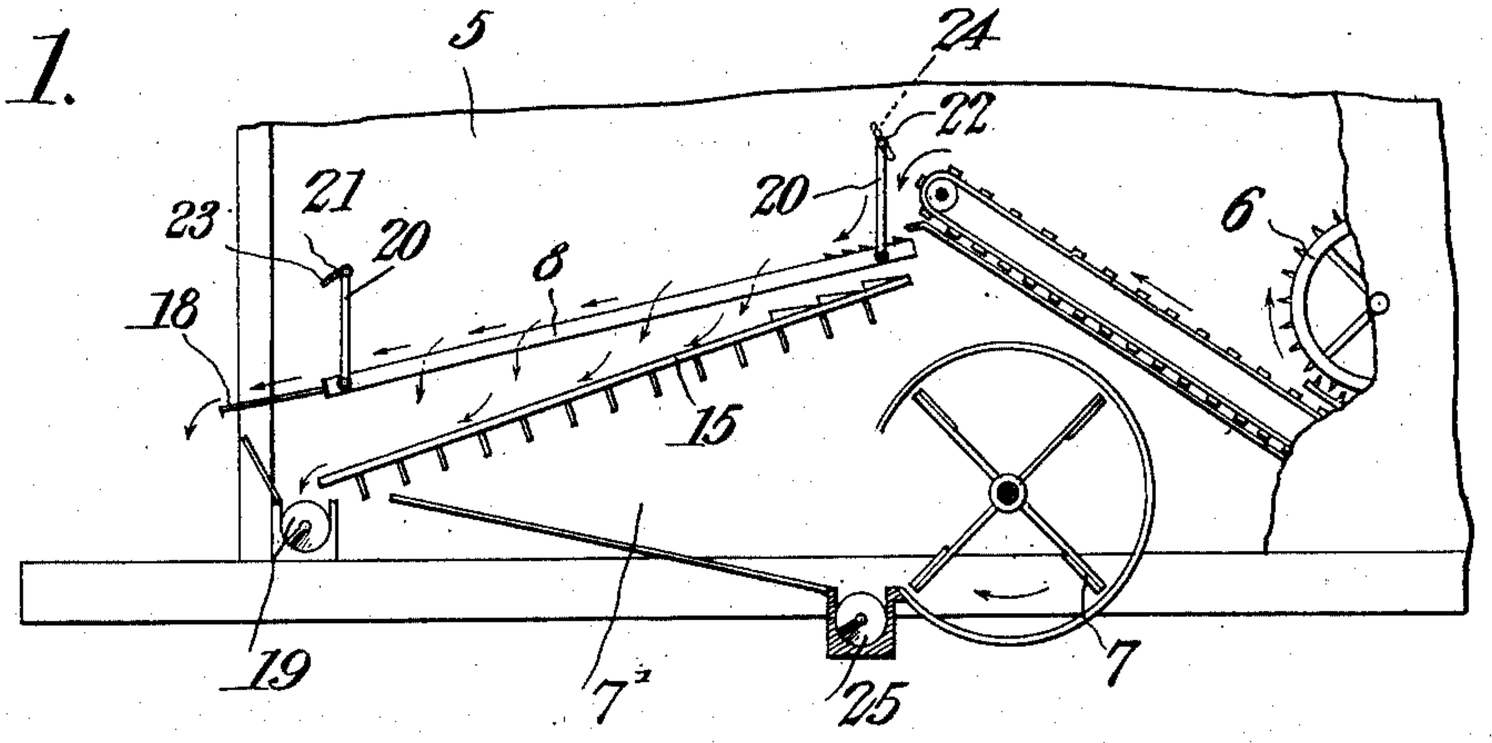
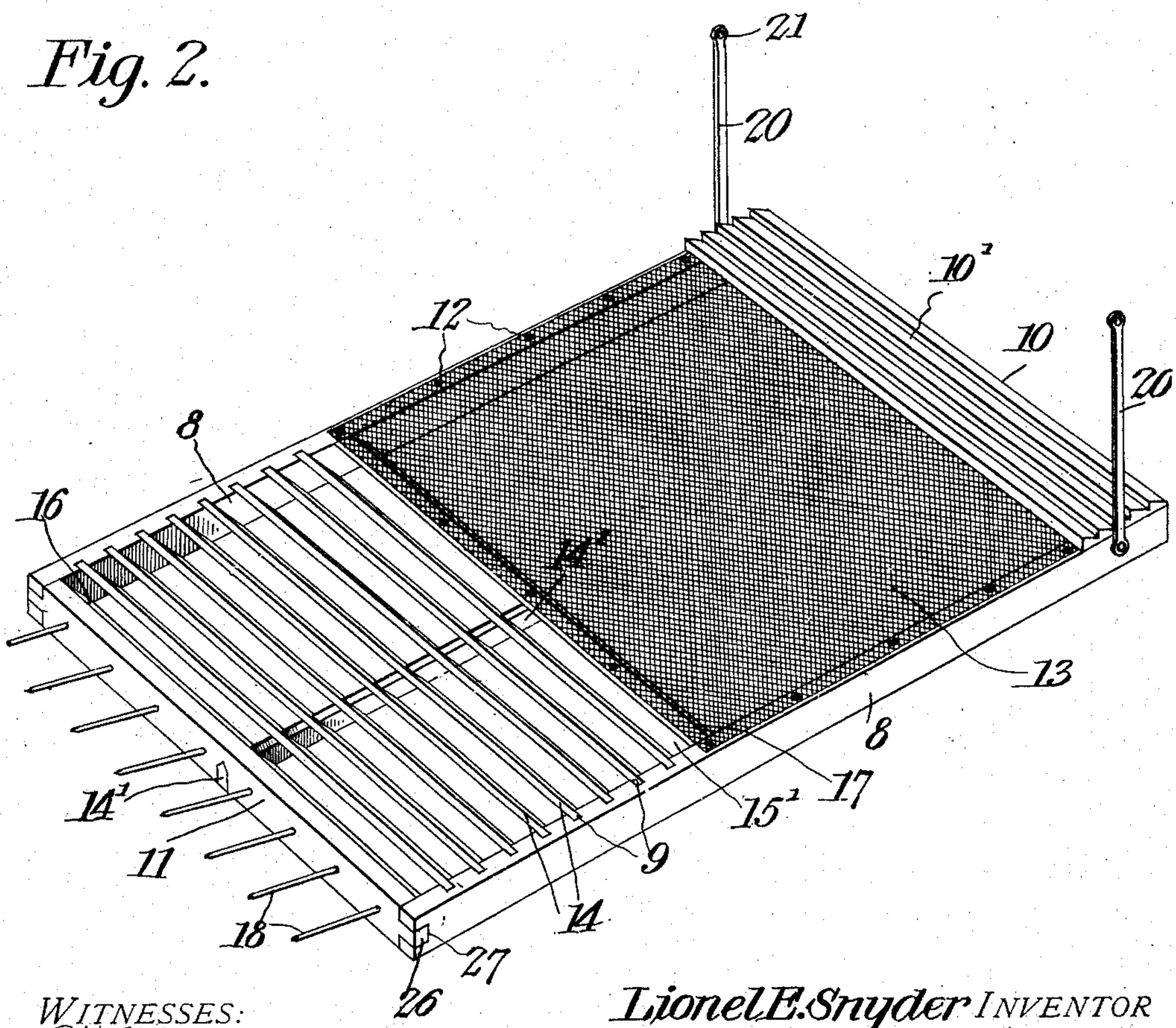


Fig. 2.



WITNESSES:

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LIONEL E. SNYDER, OF POMPEI, MICHIGAN.

STEMMER FOR CLOVER-HULLERS.

No. 864,491. Specification of Letters Patent. Patented Aug. 27, 1907.

Application filed August 3, 1906. Serial No. 329,108.

To all whom it may concern:

Be it known that I, LIONEL E. SNYDER, a citizen of the United States, residing at Pompei, in the county of Gratiot and State of Michigan, have invented a new and useful Stemmer for Clover-Hullers, of which the following is a specification.

This invention relates to stemmers for clover hullers and has for its object to provide a comparatively simple and inexpensive device of this character capable of being readily attached to the huller and by means of which the stems are deflected downwardly over the tail-auger thus preventing the stems from clogging or otherwise obstructing the machine.

A further object of the invention is to provide a pivotally mounted frame having a portion thereof covered with wire screen and provided with a plurality of spaced inclined slats which serve to deflect the chaff downwardly into the hopper and also serve to reinforce and strengthen the frame.

A further object is to form one end of the frame with a series of spaced upwardly extended fingers which project over the tail-auger and thus serve to prevent the stems from obstructing said auger.

A still further object of the invention is to generally improve this class of devices so as to increase their utility, durability and efficiency.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a longitudinal sectional view of a portion of a clover-huller provided with a stemmer constructed in accordance with my invention. Fig. 2 is a perspective view of the stemmer detached.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved device is principally designed for use on clover-hullers and by way of illustration is shown in connection with a clover-huller of the ordinary construction in which 5 designates the supporting frame, 6 the hulling cylinder and 7 the fan for creating a blast in the trough 7′.

The stemmer consists of a substantially rectangular frame comprising spaced longitudinal side bars 8 provided with alined inclined kerfs or recesses 9 and connected by end bars 10 and 11. Extended across the top of the frame and connected to the end bar 10 and side bars 8 in any suitable manner as by screws or similar fastening devices 12 is a wire screen 13 which covers approximately three-fifths of the frame, as shown. Seated in the inclined grooves or kerfs 9 are a plurality of spaced inclined slats or bars 14 connected by a longitudinal reinforcing bar 14′ and which serve to deflect the chaff and heavy material downwardly upon the screen 15. The end bar 10 is preferably formed with longitudinal ribs or corrugations 10′ to assist in feeding the material to the screen.

Attention is called to the fact that one side of the end bar 11 is inclined or beveled at 16 to conform to the inclination of the slats 14 while the lower surface of the bar 15′ is inclined as indicated at 17 so as to prevent the chaff and other material passing through the screen 13 from adhering to said bar.

It will also be observed that the longitudinal bar 14′ terminates at the inner end of the screen 13 so as not to obstruct the passage of material through the screen, and at the same time serves to support the intermediate transverse bar 15′ and consequently brace the latter so as to prevent the screen from sagging when subjected to the weight of the material.

Extending longitudinally of the frame at the end bar 11 are a plurality of spaced upwardly extending fingers 18 which project over the tail-auger 19 and thus prevent the stems from clogging or otherwise obstructing the machine.

The frame is suspended above the screens 15 by suitable hangers 20 the ends of which are perforated at 21 for the reception of bolts 22 which engage segmental slots 23 formed in the sides of the frame 5 and are provided with terminal threads for engagement with clamping nuts 24 whereby the hangers may be adjusted laterally within the slots 23 thereby to vary the angle or inclination of fingers 18.

In operation the clover from the hulling cylinder is deposited on the screen 13 and after the latter is vibrated the stems and lighter particles will drop on the screen 15 and thence to the trough 7′ and auger 25, the chaff and heavy particles being deflected downwardly between the slats while the stems will pass longitudinally of the frame and by reason of the fingers 18 be deflected over the tail-auger 19 thus preventing the stems from entering the auger and clogging or otherwise obstructing the same.

Attention is called to the fact that the opposite ends of the end-bar 11 are provided with tenons 26 which engage suitable mortises 27 formed in the side bars 8 thus forming a strong, durable and rigid frame.

The frames may be made in different sizes and shapes according to the different styles of machines of hullers on which they are used. The fingers 18 are also preferably of a length equal to the distance between alternate slats 14 but may be made in different lengths as will be readily understood.

From the foregoing description it is thought that the

construction and operation of the device will be readily understood by those skilled in the art and further description thereof is deemed unnecessary.

Having thus described the invention what is claimed is:

1. A device of the class described comprising a frame consisting of spaced longitudinal side bars provided with transversely alined inclined grooves and connected by end bars one of which has an inclined face, the other bar being corrugated on its upper surface, slats seated in said grooves, a screen secured to one of the slats and extended between said slat and the corrugated end bar, said screen supporting slat being inclined on one edge thereof to correspond to the inclination of the end bar, fingers extending laterally from one end of the frame, and a longitudinal reinforcing bar connecting the screen supporting slat and the adjacent end of the frame and intersecting the inclined slats.

2. A device of the class described comprising a frame consisting of spaced side bars having oppositely disposed inclined grooves formed therein and connected by end bars, one of said bars having an inclined face, the opposite bar being provided with corrugations, slats seated in the grooves in the side bars, a screen covering approximately three-fifths of the upper surface of the frame and secured thereto with one edge thereof bearing against the adjacent slat, a longitudinal reinforcing bar intersecting the slats and terminating at the inner end of the screen, and a plurality of upwardly extending fingers projecting from the inclined end bar between the opposite longitudinal edges thereof.

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

LIONEL E. SNYDER.

Witnesses:
CLYDE PATTERSON,
BYRON FENNO.