No. 772,817. PATENTED OCT. 18, 1904.

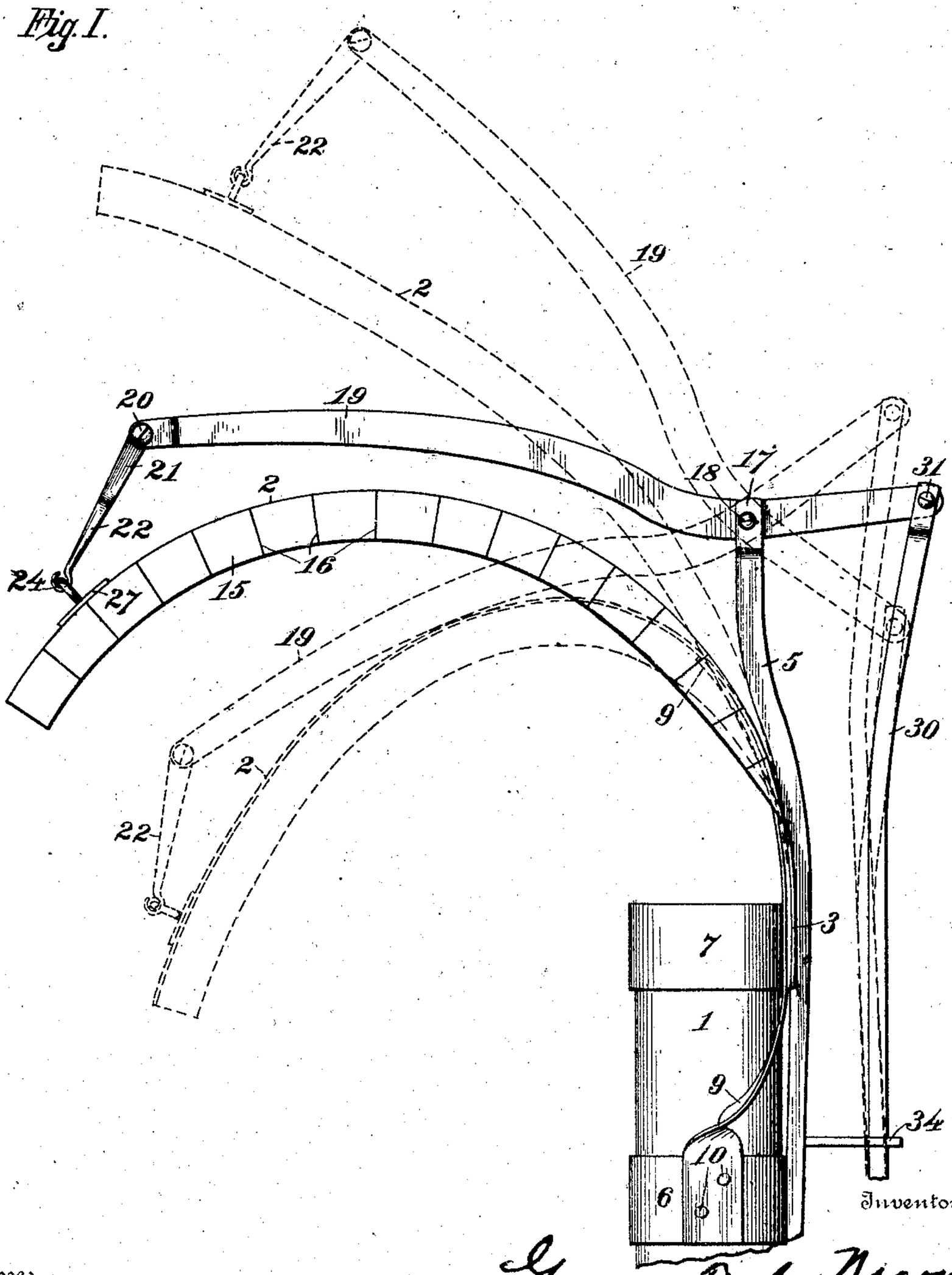
G. T. NICOSON.

PNEUMATIC STACKER ATTACHMENT.

APPLICATION FILED JUNE 20, 1903.

NO MODEL. 2 SHEETS—SHEET 1

Fig. I.



Inventor,

George Taylor Nicoson

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Witnesses

H. S. Austin

Frank J. Kent

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NO MODEL. 2 SHEETS—SHEET 2.

Fig. II.

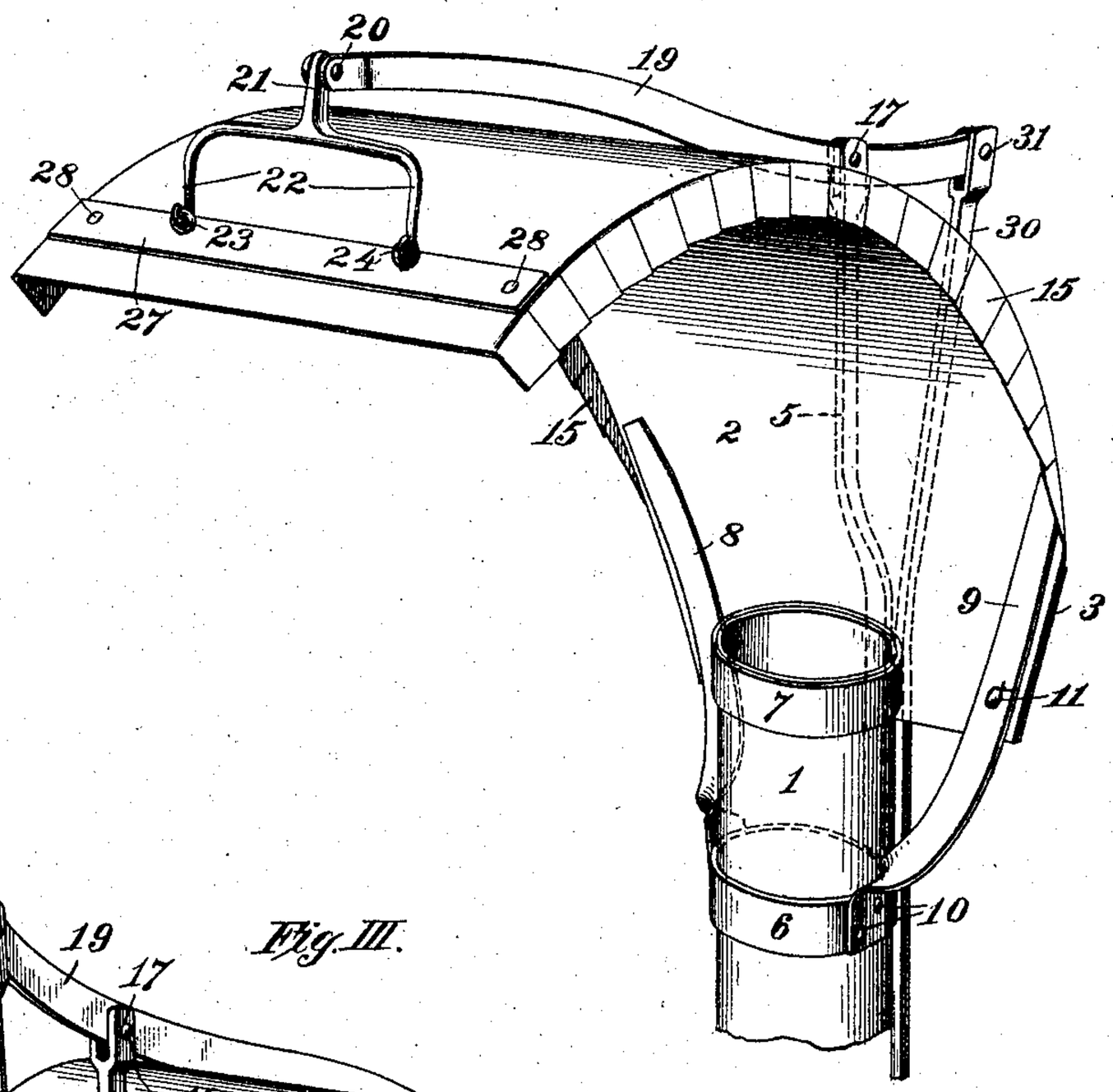
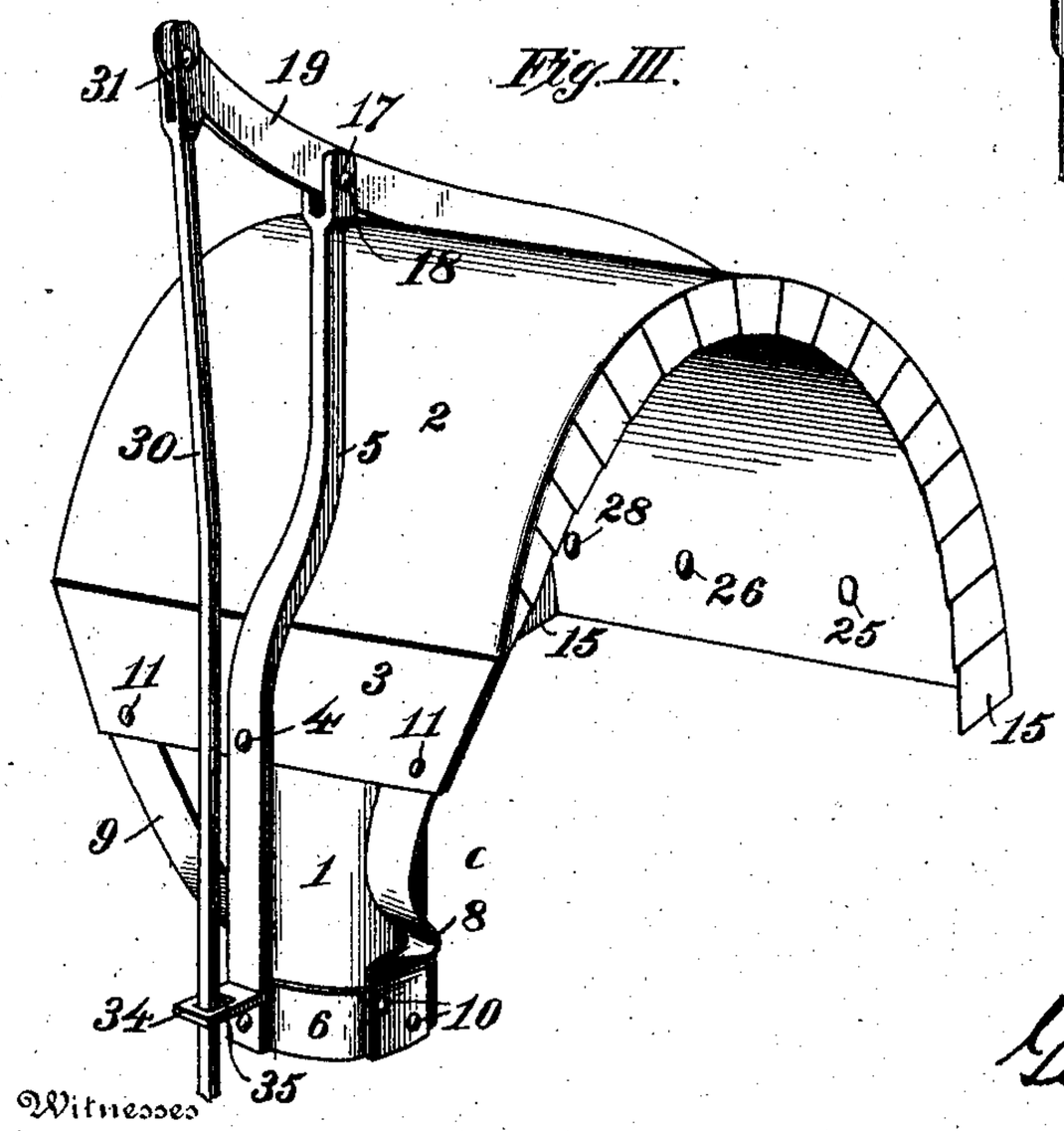


Fig. III.



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UNITED STATES PATENT OFFICE.

GEORGE TAYLOR NICOSON, OF HOOPESTON, ILLINOIS.

PNEUMATIC-STACKER ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 772,817, dated October 18, 1904.

Application filed June 20, 1903. Serial No. 162,350. (No model.)

To all whom it may concern:

Be it known that I, GEORGE TAYLOR NICOSON, of Hoopeston, in the county of Vermilion, State of Illinois, have invented certain new and useful Improvements in Pneumatic-Stacker Attachments, of which the following is a complete specification, reference being had to the accompanying drawings.

The object of my invention is to produce a simple, economic, efficient, and practicable device for distributing the straw discharged from the chute of a pneumatic stacker regularly and evenly upon any part of the stack desired without danger of choking the chute.

My invention consists of a flexible hood of suitable dimensions and configuration provided with means for attaching it to the end of a stacker-chute adapted by its resiliency to maintain a normal position with respect to the stacker-chute and adapted to be adjusted against the force of its resiliency to a wide range of different positions for the performance of its functions.

In the accompanying drawings, Figure I is a side elevation of a preferred form of embodiment of my invention, showing in full lines the normal position thereof and in dotted lines variations from such normal position to which in practice it is operatively adjustable. Fig. II is a perspective view of my device in its normal position looking toward the inside of the hood. Fig. III is a similar view looking toward the rear of the hood.

Referring to the numerals on the drawings, 1 indicates, by way of example, the discharge end of a stacker-chute, and 2 a hood made of flexible resilient material, preferably sheet-steel. The hood is attached, preferably by conveniently detachable means, to the end of the chute 1. For that purpose I prefer to provide upon one end of the hood a reinforcing-plate 3, to which, as by a rivet 4, is secured a backbone 5, which carries upon its lower extremity a ring 6 and upon the rivet 4, inside of the hood, a ring 7, coaxial with the ring 6. The rings 6 and 7 are snugly fitted to the chute 1 and serve to rigidly secure the hood 2 in place upon it.

8 and 9 indicate lateral braces secured, as by rivets 10, at one end to the ring 6 and, as by rivets 11, to the hood 2 and brace-plate 3. The braces 8 and 9 also extend upwardly, and preferably somewhat divergently against the inner face of the hood 2, and constitute means for limiting the flexibility of the hood. By this means a constant minimum angle of inclination between the discharge end of the chute 1 and the contiguous end of the hood 2 is provided, whereby danger of choking the chute through adjustment of the hood is eliminated.

The opposite edges of the hood are preferably guarded by flanges 15, made by bending them at right angles to the body of the hood. The curvature and flexibility of the flanges are secured by providing the flanges at frequent intervals with slits 16.

The backbone 5 is extended upwardly to form a fulcrum 17, to which is pivotally secured, as by a pin 18, a lever 19. The lever 19 is pivoted, as indicated at 20, to the medial projection 21 of a bifurcated supporting member 22, whose opposite ends, as indicated at 23 and 24, are engaged with eyelets riveted, as indicated at 25 and 26, through the hood and a reinforcing-strip 27, with which the hood is preferably provided near its front edge, as illustrated. 28 indicates rivets for contributing to the union of the reinforcing-strip and the hood. The lever 19, being designed to impart to the hood its various operative adjustments, is provided with suitable means of manipulation—such, for example, being by preference, on account of its simplicity, a pitman 30, pivoted near its upper end, as indicated at 31, to the shorter arm of the lever 19 and near its lower end, as indicated at 32, to a handle-bar 33. The handle-bar 33 is in practice pivotally secured at the end opposite the handle to a fixed part of the stacking-machine; but it being unnecessary to illustrate such obvious details of construction the handle-bar is merely indicated in Fig. II of the drawings, the end which is in practice attached to the stacker being broken away.

34 indicates a guide-piece projecting from the rear of the backbone 5 and provided with an aperture 35, through which the pitman 30 reciprocates.

What I claim is—

1. The combination with a stacker-chute and a flexible hood of means for securing the hood to the chute and means located upon the side of the hood that is attached to the chute for limiting the flexibility of the hood with respect to the discharge end of the chute.

2. The combination with a flexible sheet-metal hood provided with flexible lateral flanges of means for attaching it to a stacker-chute, and means for bending the hood into various operative positions.

3. The combination with a flexible sheet-metal hood provided with detachable means for attaching it to a stacker-chute and means for limiting its flexibility for the purpose specified, of means for bending the hood into various operative positions.

4. The combination with a backbone, sheet-metal hood, rings and braces secured thereto, of a lever operatively secured to the backbone of the hood, and means for actuating the lever.

5. The combination with a backbone, sheet-metal hood, rings and braces secured thereto, said braces being extended to constitute means for limiting the flexibility of the hood, of a lever operatively secured to the backbone of the hood, and means for actuating the lever.

6. The combination with a stacker-chute and a resilient flexible hood adapted by its resiliency to retain a normal position with respect to the stacker-chute, and means for adjusting the hood to different positions against the force of its resiliency.

In testimony of all which I have hereunto subscribed my name.

GEORGE TAYLOR NICOSON.

Witnesses:

I. M. EVANS,

W. J. PARK,

C. E. HAZEL.