

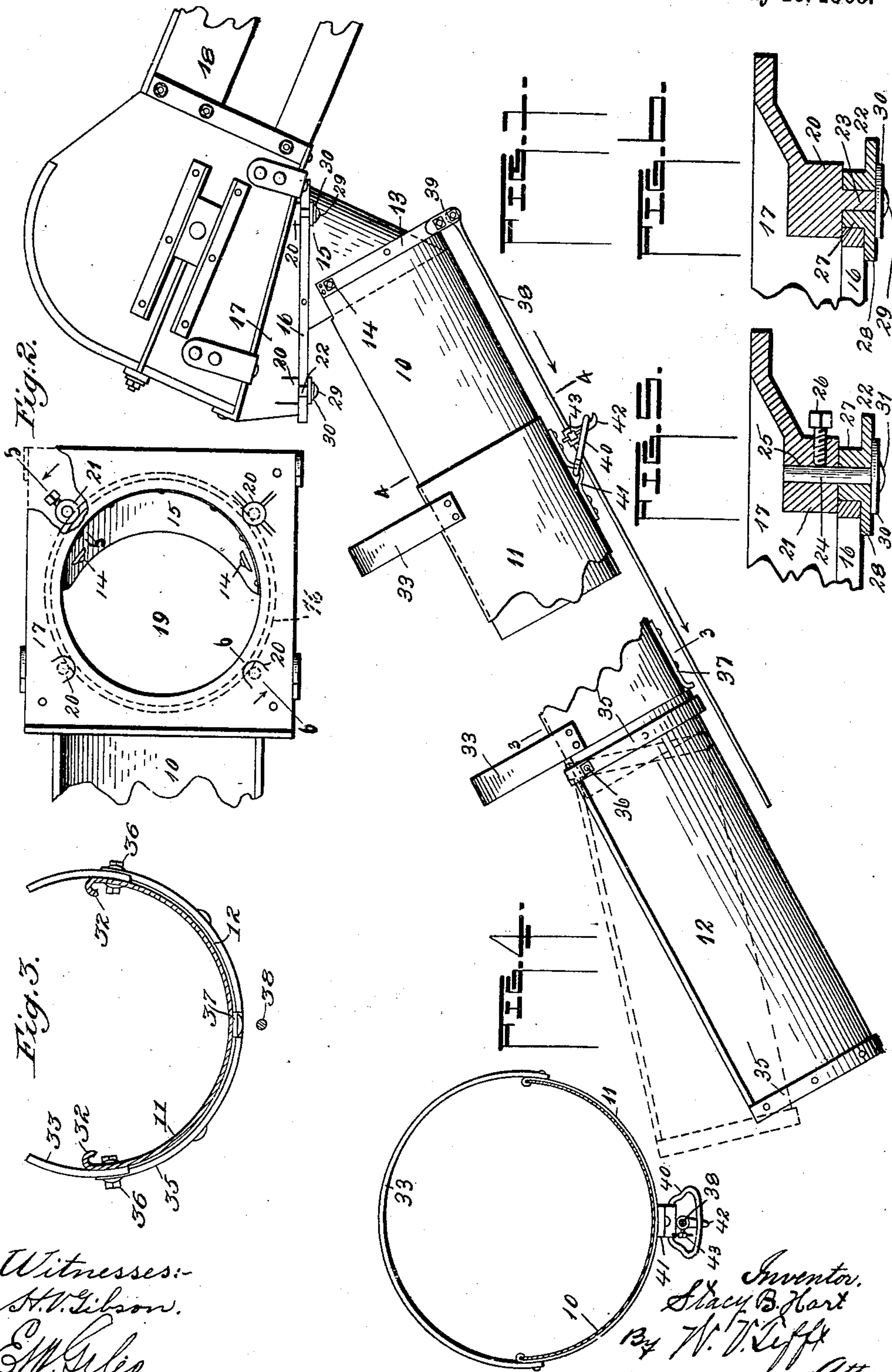
S. B. HART.

SPOUT.

APPLICATION FILED JUNE 24, 1907.

921,696.

Patented May 18, 1909.



Witnesses:-  
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E. M. Giles

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# UNITED STATES PATENT OFFICE.

STACY B. HART, OF PEORIA, ILLINOIS.

## SPOUT.

No. 921,696.

Specification of Letters Patent.

Patented May 18, 1909.

Application filed June 24, 1907. Serial No. 380,403.

*To all whom it may concern:*

Be it known that I, STACY B. HART, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Spouts; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has reference more particularly to spouts which are constructed of sections which may be adjusted to shorten or lengthen the spout and the nature and object of my invention will more fully appear hereinafter.

In the accompanying drawing, which illustrates my invention, Figure 1 shows a side elevation of a spout embodying my improvements, said spout being shown attached to the delivery end of an elevator; Fig. 2 a top view of the upper end of the spout; Figs. 3 and 4 transverse sectional views on the lines 3—3 and 4—4 respectively of Fig. 1, looking as indicated by the arrows adjacent said lines, and Figs. 5 and 6 sectional views on the lines 5—5 and 6—6 respectively of Fig. 2, looking as indicated by the arrows adjacent said lines.

The spout herein shown consists of the upper, intermediate and the lower sheet metal spout sections 10, 11 and 12 respectively, preferably semicircular in cross section as shown. The upper section 10 has a strap 13 at the upper end thereof which may be riveted or otherwise secured thereto for strengthening said section and has a bolt 14 passed therethrough near each end and through the side walls of the throat 15 whereby the spout is horizontally pivoted. This throat extends partially around the circular flange 16 and extends downwardly and forwardly therefrom as shown to direct grain into the spout section 10, and said throat projects into said spout section 10 as shown in Fig. 1 a sufficient distance to engage the bottom of said spout section, when said section is raised to limit the upward movement of the spout.

17 is a hood like part which is designed to be attached to the delivery end of the elevator 18 and inclose the discharge opening therefrom, and said hood like part has the opening 19 therein through which the material is discharged. Diametrically arranged at regular intervals around the discharge opening 19 in the hood like part 17 and on

the outer face thereof are four protuberances 20 and 21 to which are connected rollers 22 that support the spout. The protuberances 20 have the integral downwardly projecting stems 23 and the protuberance 21 has the pin 24 removably held in the vertical opening 25 by means of the set screw 26. Each of the stems 23 and the pin 24 has a roller 22 thereon, said rollers being formed with the reduced body portion 27 which engages the outer face of the circular flange 16 hereinbefore mentioned to confine said circular flange to circular movement and has the flange portion 28 projecting beneath said circular flange whereby said circular flange and the spout is supported. The lower ends of the stems 23 are rivet headed as at 29 against the washer 30 thereon, to hold the rollers 22 thereon and the pin 24 has the head 31 at the lower end and washer 30 thereon bearing against said head to hold the roller thereon. As is apparent, when it is desired to disconnect the spout from the hood-like part 17 the pin 24 and roller thereon is removed and the circular flange 16 may then be drawn diametrically from engagement with the other roller.

The intermediate section 11 of the spout which is of approximately the same length as the section 10 is slightly larger in transverse dimensions so as to fit around the outside of section 10 and slide lengthwise thereof. The edges of this section 11 are bent over the edges of the section 10 as shown at 32 to hold said sections 10 and 11 together and there are provided braces 33, preferably semicircular in form which are riveted to the section 11 near the ends thereof and pass over said section as shown in Figs. 3 and 4 and brace the sides of said section against separation. The lower end of the section 11 is provided with a strap 34 which may be riveted or otherwise secured thereto to strengthen the lower end of said section. The lower section 12 of the spout is likewise semicircular and slightly larger than section 11 and has the strap 35 at the outside of each end thereof for strengthening said section. At the upper end thereof said section is horizontally pivoted to the lower end of section 11 by means of the bolts 36 which are passed through the ends of strap 35 and the section 12 and through the ends of the strap 34 and the section 11 so that said section 12 may be swung on said bolts to a position shown in Fig. 1 in line with the section 11 or may be swung on



said bolts so as to rest on the braces 33 and overlie the section 11. The stop 37 is secured to the lower end of section 11 to engage the upper edge of section 12 when in line with section 11. Section 11, as is apparent slides longitudinally or telescopes the upper section 10 and to facilitate the passing of section 11 in any desired position of adjustment there is provided the rod 38 which is pivoted at its upper end to the bracket 39 which may be bolted to the upper end of section 11 or may form an integral part of strap 16. This rod is adapted to bear along the bottom of section 10 and extend a short distance beyond the lower extremity thereof. To this rod 38 there is designed to be adjustably connected the finger 42 which is secured thereto by means of the set screw 43. Connected with the lower portion of section 11 there is provided a loop 40 which is loosely secured thereto by means of the loop strap 41 thereby providing a means for holding section 11 in any desired position of adjustment, this being accomplished by fixing the finger 42 at any desired point on the rod and then sliding section 11 upwardly until the loop 40 engages the finger.

What I claim is:

1. The combination of a plurality of inclined telescopically related spout sections having the upper section suitably supported to oscillate vertically and rotate horizontally and a spout section horizontally pivoted to the lower telescoping section to fold over said lower telescoping section.

2. The combination with an elevator head, of a plurality of inclined telescoping spout sections supported by said elevator head to oscillate vertically and rotate horizontally and a spout section horizontally pivoted to the lower telescoping section to fold thereover.

3. The combination of a plurality of in-

clined telescoping spout sections, means for limiting the extension of said telescoping sections, and a spout section horizontally pivoted to the lower end of the lower telescoping section to fold over said lower telescoping section.

4. A spout comprising a semicircular spout section, a second semicircular spout section extending around the first mentioned section and having the edges thereof folded inwardly over the edges of the first mentioned section, and semicircular straps extending over and connecting the sides of the second mentioned sections.

5. A spout comprising an inclined spout section, a spout section pivoted to the lower end of the inclined spout section to fold over said inclined spout section and a brace connecting the opposite sides of the inclined spout section and extending upwardly therefrom to support the pivoted spout section in the folded position.

6. A spout comprising a plurality of inclined telescoping sections, a rod on one of said sections extending along the adjacent section, a loop on said adjacent section encircling the rod and an adjustable collar on said rod adapted to engage the said loop.

7. The combination of a pair of telescoping inclined spout sections, a rod connected at the upper end of the upper section and extending along the lower telescoping section, a loop at the upper end of the lower telescoping section encircling the rod, and an adjustable finger on said rod adapted to engage the loop on the lower telescoping section to limit the extension thereof.

In testimony whereof I have affixed my signature, in presence of two witnesses.

STACY B. HART.

Witnesses:

JAMES R. HARRISON,  
E. M. GILES.