

No. 767,271.

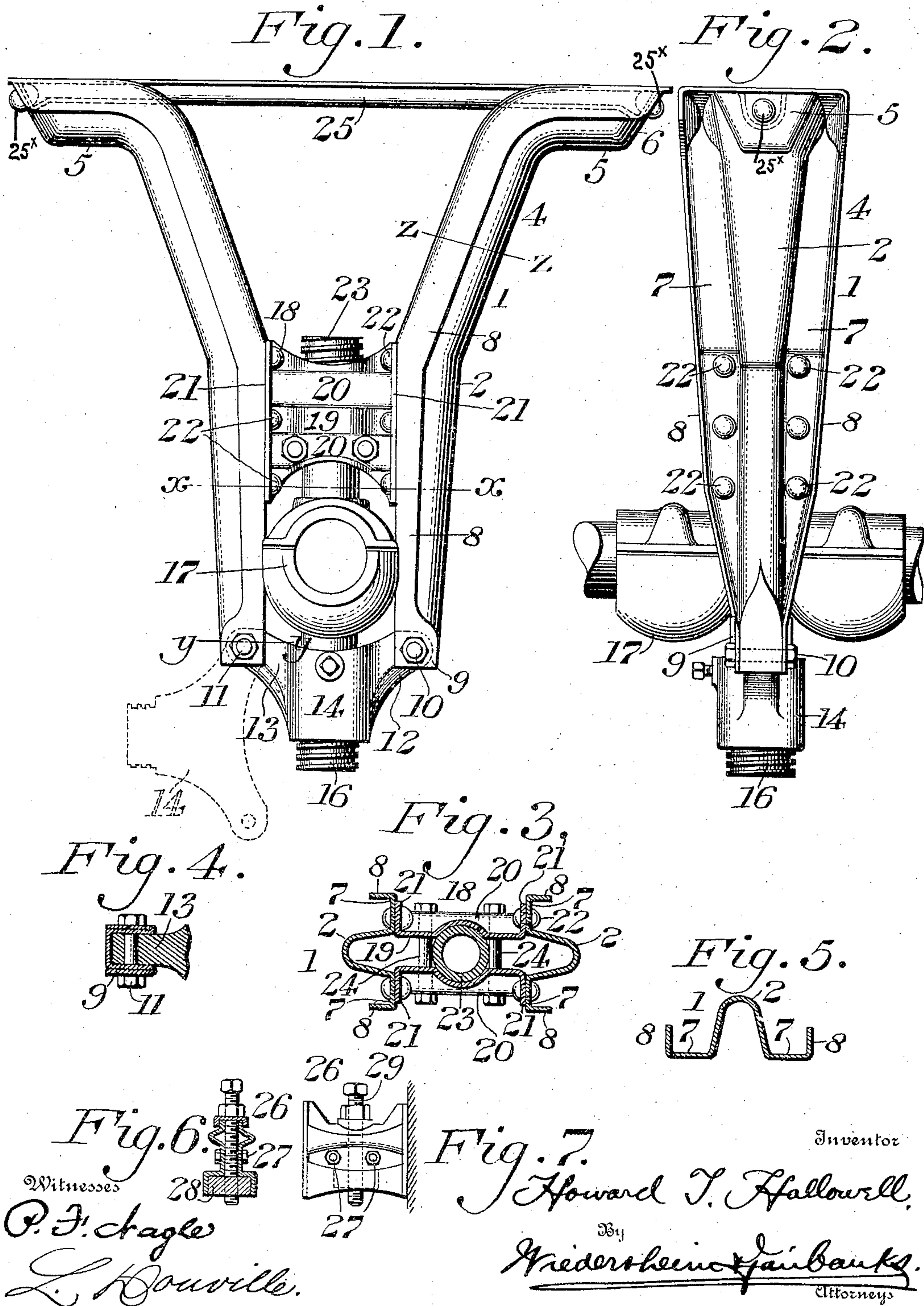
PATENTED AUG. 9, 1904.

H. T. HALLOWELL.  
SHEET METAL SHAFT HANGER.

APPLICATION FILED FEB. 3, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



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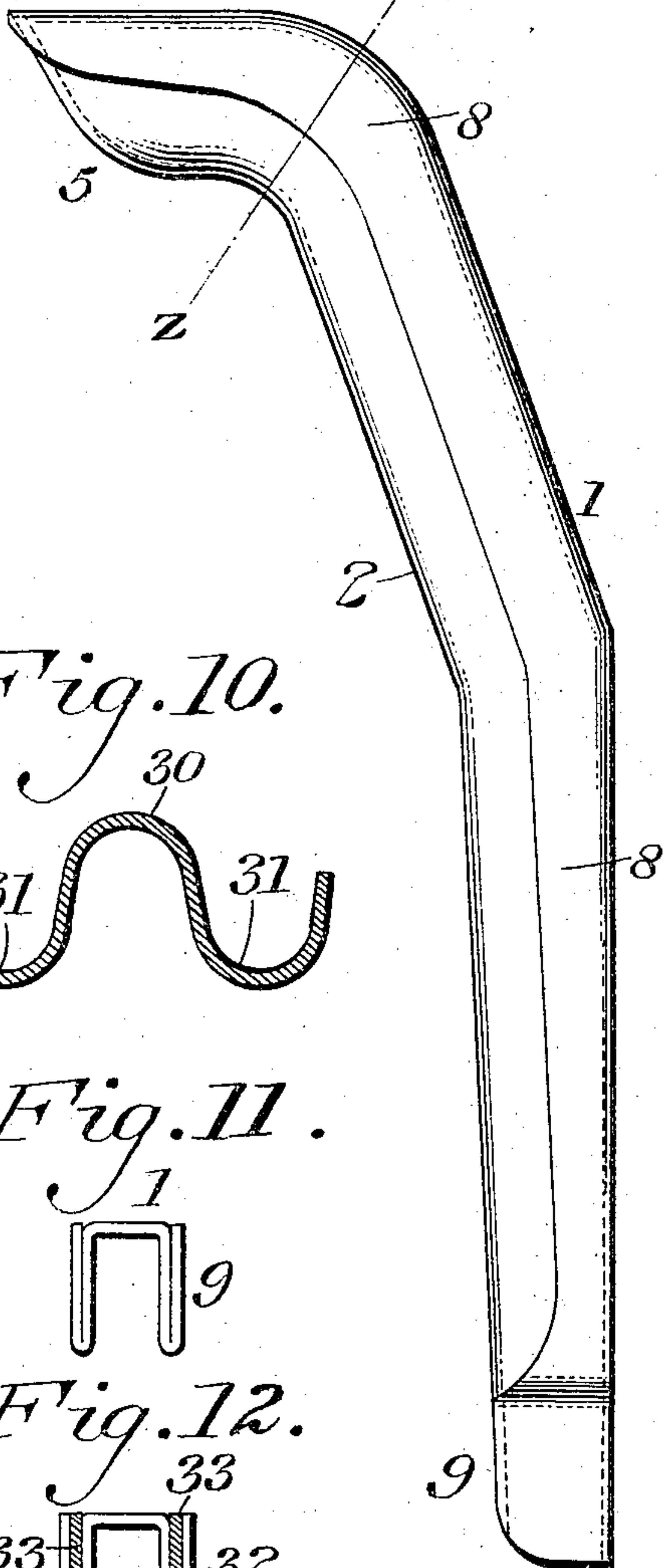
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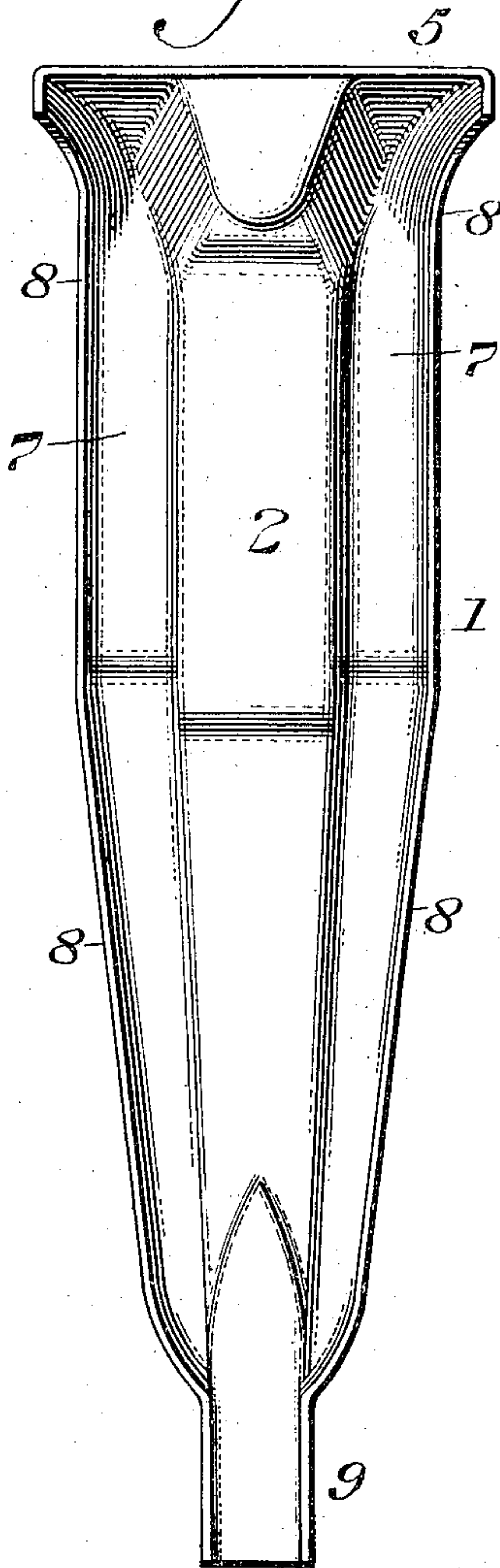
NO MODEL.

2 SHEETS—SHEET 2.

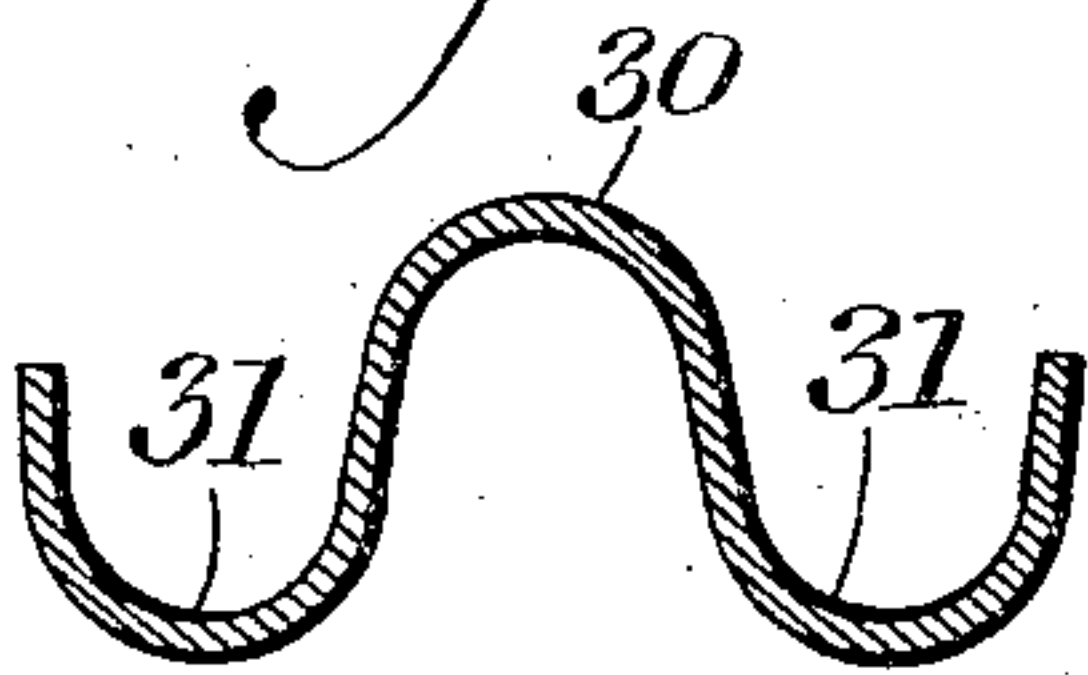
*Fig. 9.*



*Fig. 8.*



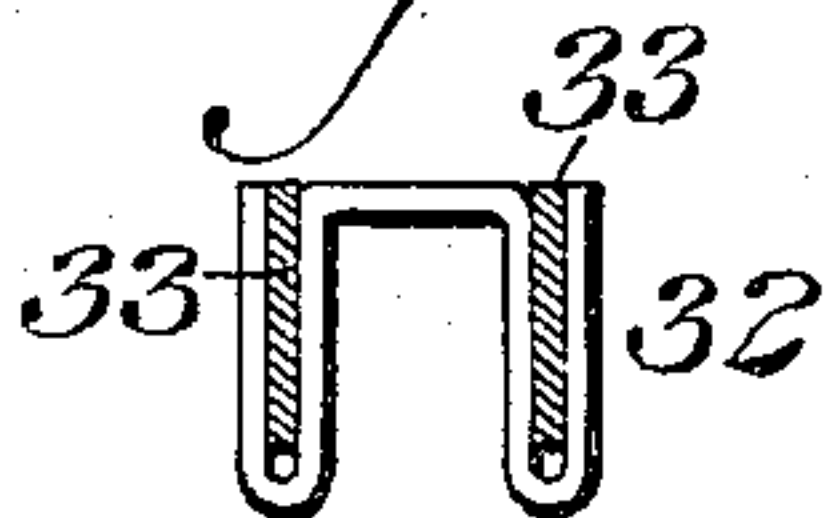
*Fig. 10.*



*Fig. 11.*



*Fig. 12.*



Witnesses

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# UNITED STATES PATENT OFFICE.

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TO STANDARD PRESSED STEEL COMPANY, A CORPORATION OF PENN-  
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## SHEET-METAL SHAFT-HANGER.

SPECIFICATION forming part of Letters Patent No. 767,271, dated August 9, 1904.

Application filed February 3, 1903. Serial No. 141,662. (No model.)

*To all whom it may concern:*

Be it known that I, HOWARD T. HALLOWELL, a citizen of the United States, residing at Hal-  
lowell, in the county of Montgomery, State of  
5 Pennsylvania, have invented a new and use-  
ful Improvement in Sheet-Metal Shaft-Hang-  
ers, of which the following is a specification.

My invention consists of a novel construc-  
tion of sheet-metal shaft-hanger which can be  
10 cheaply manufactured and is strong and du-  
rable.

Figure 1 represents a side elevation of the  
hanger. Fig. 2 represents an end elevation.  
Fig. 3 represents a section on line *x x*, Fig.  
15 1. Fig. 4 represents a section on line *y y*,  
Fig. 1. Fig. 5 represents a section on line  
*z z*, Fig. 1. Figs. 6 and 7 represent a sec-  
tional view and a side elevation, respectively, of  
a modified construction of intermediate brace.  
20 Fig. 8 represents a front elevation of the  
hanger-leg seen in Figs. 1 and 2, on an en-  
larged scale. Fig. 9 represents a side eleva-  
tion of the hanger-leg seen in Fig. 8. Fig. 10  
represents a section on line *z z*, Fig. 9. Fig.  
25 11 represents an end view of the hanger-leg  
seen in Fig. 8. Fig. 12 represents a sectional  
view of a modified construction of hanger.

Similar numerals of reference indicate cor-  
responding parts in the figures.

30 Referring to the drawings, each hanger-leg  
1 has a longitudinally-extending hollow rib  
2, which has the upper portion 4 deflected  
outwardly and the upper terminals 5 deflect-  
ed so as to form feet whose outer ends are  
35 closed, as at 6, it being understood that the  
rib 2 extends throughout the entire length of  
the hanger.

7 designates members which extend later-  
ally from the sides of the rib 2, said members  
40 being deflected outwardly in substantially par-  
allel lines, as will be understood from Figs. 3  
and 5, so as to form the flanges 8, which, it will  
be seen, extend throughout the entire length  
of each hanger-leg. The lower extremity of  
45 the flange 8 is doubled upon itself, as indi-  
cated at 9 in Figs. 1, 2, and 4, whereby the  
end of the hanger-leg is strengthened and re-  
inforced where strength is needed. The bolts

10 and 11 pass through these points to hold  
in position the ends 12 and 13 of the yoke 14, 50  
in which is rotatably mounted the adjusting  
device 16. Upon this device is supported the  
box 17, the upper portion of which box is  
held in position by the upper adjusting de-  
vice 23. This device is held between the 55  
parts of intermediate brace 18, which con-  
sists of the pair of plates 19, having the  
strengthening-ribs 20, said plates having  
flanges 21 which are secured to the members  
7 by rivets 22. By removing a bolt, as 10, the 60  
yoke 14 can drop, as seen in Fig. 1, thus ren-  
dering the box 23 accessible and removable.  
The plates 19 are braced by the bolts 24. A  
plate 25, bridging the space between the feet  
5, may be used, or, if desired, said plate may 65  
be omitted. It will be noted that this plate  
extends between the extremities of the closed  
ends 6 and is riveted thereto, as shown at  
25<sup>x</sup>. The depth of the flanges 8 is increased  
or decreased according to the drop of the 70  
hanger.

In the construction seen in Figs. 6 and 7 the  
intermediate brace 26 is composed of a plu-  
rality of plates having one or more curves and  
held in assembled position by fastening de- 75  
vices 27, the lower portion of said plates be-  
ing enlarged, so as to contain the block 28,  
through which passes the adjusting device 29,  
which, it will be understood, can be used in  
place of the adjusting device 23. (Seen in 80  
Figs. 1 and 3.)

In the construction seen in Fig. 10 I have  
shown the central longitudinally-extending  
hollow rib 30 as provided with the rounded  
portions 31 instead of being constructed as 85  
seen in cross-section in Fig. 5.

In Fig. 12 I have shown the lower extremi-  
ties 32 of the hanger-leg as being reinforced  
by plates 33, which may be employed, if de-  
sired. 90

It will be understood that we may in cer-  
tain cases not close the flanges 8 upon the  
body portions at the lower end of the leg, as  
shown in Figs. 2 and 11, but let the flanges  
on the outer edges taper gradually as they ap- 95  
proach the lower end of the legs; but owing



to the increased strength of closing the end of the leg as shown the construction shown is preferred.

Special attention is called to the fact that I make the legs with a widened base gradually terminating into narrow portions at their lower end, whereby the lower brace is strongly and neatly coupled to the legs, giving the greatest possible strength.

When the construction shown in Fig. 6 is used for the brace, I prefer to insert lateral adjusting devices in the legs to take the side thrust of the box.

Slight changes may be made by those skilled in the art, and I have not shown nor described all modifications which I consider coming within the bounds of this invention.

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

1. In a shaft-hanger, an integral leg and foot formed with a central hollow rib, a laterally-extending flange at each side of said rib and flanges extending angularly from the outer edge of said lateral flanges, said rib and said flanges extending throughout substantially the length of the leg.

2. In a shaft-hanger, an integral leg and foot formed with a central hollow rib, a laterally-extending flange at each side of said rib and flanges extending angularly from the outer edges of said lateral flanges, said rib and said flanges extending longitudinally from the extremity of said foot to the lower portion of said leg.

3. In a shaft-hanger, an integral leg and foot formed with a central hollow rib, a laterally-extending flange at each side of said rib and flanges extending angularly from the outer edges of said lateral flanges, said rib and said flanges extending longitudinally from the extremity of said foot to the lower portion of said leg, the outer end of said rib being closed at the extremity of said foot.

4. In a shaft-hanger, an integral leg and foot formed with a central rib, a laterally-extending flange at each side of said rib and flanges extending angularly from the outer edges of said lateral flanges, the lower ends of said angularly-extending flanges reinforcing the lower end of the leg.

5. In a shaft-hanger, an integral leg and foot formed with a central hollow rib, a laterally-extending flange at each side of said rib and flanges extending angularly from the outer edges of said lateral flanges and reinforcing the lower end of the leg, said reinforcing portion being pierced to adapt it to receive a support.

6. A sheet-metal shaft-hanger comprising

a pair of integral legs and feet each formed with a central hollow rib, a laterally-extending flange at each side of said rib and flanges extending angularly from the outer edges of said lateral flanges, said rib and said flanges extending longitudinally from the extremity of said foot to the lower portion of said leg, a brace connecting said legs intermediate their length and rigidly secured to said lateral flanges, and a yoke connected to the lower ends of said legs.

7. A sheet-metal shaft-hanger comprising a pair of integral legs and feet each formed with a central hollow rib, a laterally-extending flange at each side of said rib and flanges extending angularly from the outer edges of said lateral flanges, the outer ends of said ribs being closed at the extremities of said feet, a brace connecting and rigidly secured to said legs intermediate their length, a yoke connected to the lower ends of said legs and a plate connecting said feet, the ends of said plate being secured within the outer ends of said ribs at the extremities of said feet.

8. A sheet-metal shaft-hanger comprising a pair of integral legs and feet each formed with a central hollow rib, a laterally-extending flange at each side of said rib and flanges extending angularly from the outer edges of said lateral flanges, the lower ends of said angularly-extending flanges being shaped so as to reinforce the lower ends of said legs, a brace connecting said legs intermediate their length and a yoke secured to both sides of each of the reinforcing ends of said legs.

9. A sheet-metal shaft-hanger comprising a pair of legs with integral feet each formed with a central hollow rib, a laterally-extending flange at each side of said rib and flanges extending angularly from the outer edges of said lateral flanges so as to reinforce the lower ends of said legs, the reinforcement being pierced to receive a bolt, a bolt fitting therein, a brace connecting said legs intermediate their length, a yoke connecting said legs at their lower ends and inserted between said reinforced portions of each of said legs and bolts connecting said yoke with each of said legs.

10. A shaft-hanger comprising a pair of legs and a brace secured to said legs intermediate their length, said brace having a hollow strengthening-rib provided with flanges at angles with the rib, engaging the inner portions of the legs.

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Witnesses:

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