

May 27, 1930.

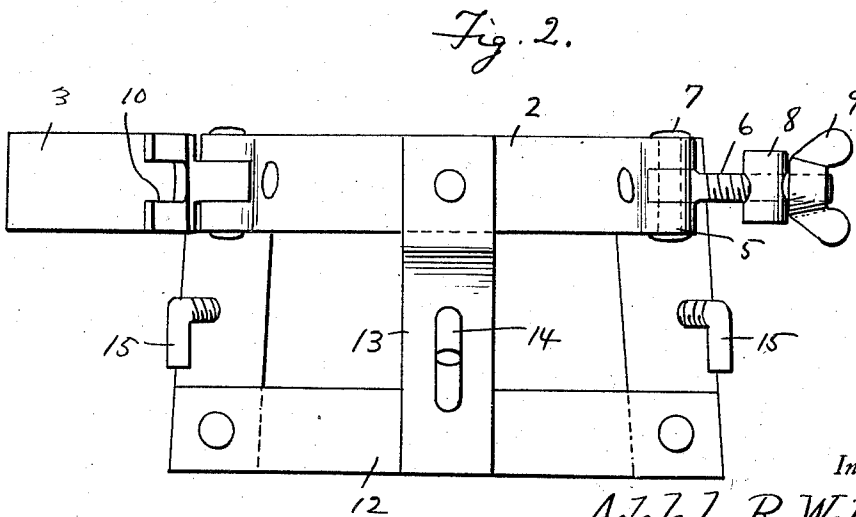
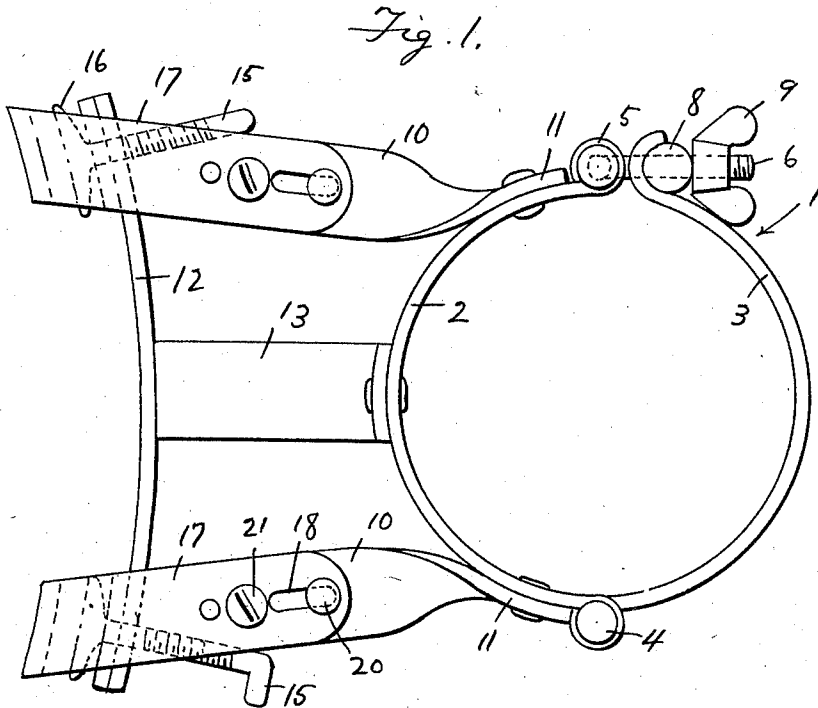
A. B. WEBER

1,760,458

PIPE SUPPORT

Filed July 16, 1928

2 Sheets-Sheet 1



Inventor

Adolph B. Weber

By *Clarence A. O'Brien*
Attorney

May 27, 1930.

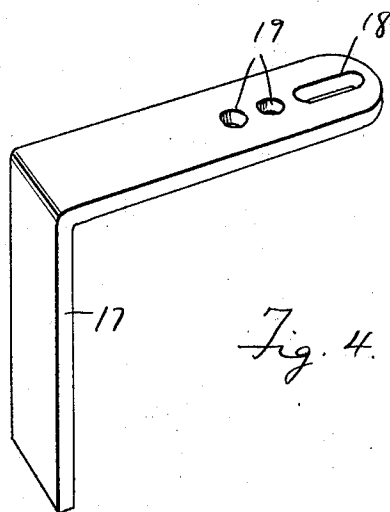
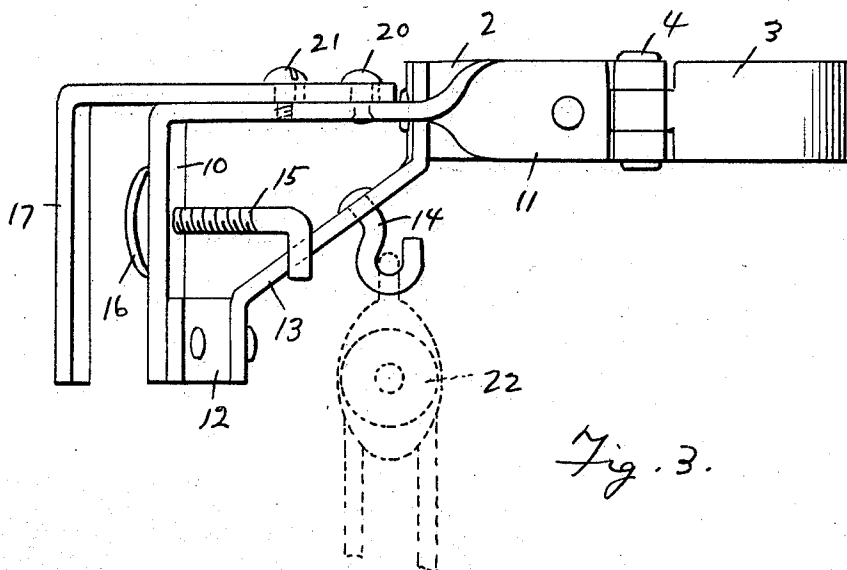
A. B. WEBER

1,760,458

PIPE SUPPORT

Filed July 16, 1928

2 Sheets-Sheet 2



Inventor

Adolph B. Weber

By *Chas. A. Brien*
Attorney

UNITED STATES PATENT OFFICE

ADOLPH B. WEBER, OF WADENA, IOWA

PIPE SUPPORT

Application filed July 16, 1928. Serial No. 292,988.

The present invention pertains to improvements in pipe supports, and resides more particularly in means for supporting the blower pipe of an ensilage cutting machine, to permit the discharge of the ensilage into the silo without the liability of the pipe falling from the silo, as is often experienced and is due particularly to the weak temporary means employed for securing the pipe to the silo. Frequently, the falling of the discharge blower pipe results in injury to workmen nearby, and at least causes delay and a consequential expense.

The prime object of this invention is to provide a novel support for the blower pipe of any type of ensilage cutter, wherein the support is provided with means for attachment to the upper edge of the silo, or to the edge of an opening in the silo, while a horizontally disposed structure on the support, provides means for securing the blower pipe in substantially vertical disposition.

Another important object of the invention is to provide a device of this character, which can be easily attached in place for use and which will be far more efficient and practical in use, than devices now employed for the same purpose.

Still another object of the invention is to provide a pipe support of this novel structure, wherein means are provided to permit the adjustment thereof to fit various sized structures, to which the same may be applied.

After reading the following specification and claims, other important objects and advantages of the invention will become apparent.

In the drawings:—

Figure 1 represents a top plan view of the invention.

Fig. 2 is an end elevation, looking toward the pipe clamping structure, which is shown in open position.

Fig. 3 is a side elevation of the device, and

Fig. 4 is an enlarged perspective view of one of the clamp plates.

Now referring to the drawings wherein like numerals designate like parts, the invention includes a clamping annulus generally referred to by the numeral 1, and which con-

sists in the construction of a pair of semi-circular shaped plates 2 and 3 respectively. The plates 2 and 3 respectively, are hingedly connected together, at one of their ends by a pin 4, while the opposite end of the plate 2 is formed with a loop 5, and bifurcated in the manner shown clearly in Fig. 2.

An eye bolt 6, has its eye portion disposed within the bifurcated end of the plate 2, while a pin 7 projects through the loop 5, for pivotally connecting the eye bolt to said plate. A follower member 8 is arranged on the threaded portion of the eye bolt, while a wing nut 9 is threadable on the eye bolt for engagement against the follower.

The free end of the complementary plate 3 is bifurcated at 10 and curved backwardly in the manner shown in Fig. 1, to provide a hooked end. The bolt 6 is adapted to be engaged within the case 10 and the follower 8 forced into engagement with the hooked end of the plate 3, by feeding the wing nut 9 inwardly on the bolt 6.

A pair of substantially L-shaped bars 10—10 are each twisted at one of their ends 11, and secured to the outer side of the plate 2, adjacent the active ends thereof. An arcuate-shaped cross bar 12 has its end portions connected to the depending leg portions of the L-shaped bars 10—10, while the brace 13, connects the intermediate portions of the cross bar 12, with the intermediate portion of the semi-circular plate. A hook member 14 is secured to the brace bar 13, and depends below the same, and as shown in Fig. 3.

Threaded through the depending leg portion of each L-shaped bar 10 is a threaded element 15, provided with a clamp plate 16, adapted for movement between said depending legs and the depending leg of an additional L-shaped bar 17. The horizontal leg portion of the bar 17 is formed with a slot 18, adjacent its free end, and a pair of openings 19 formed therein, slightly inwardly from the said block.

The slot 18 and the openings 19 are arranged in longitudinal alinement. A rivet 20 projects upwardly from the horizontal portion of the bar 10 and is disposed through the slot 18 to permit the slidable movement

of the bar 17, to vary the space between the depending leg portion thereof, and the depending leg portion of the complementary bar 10.

A set screw 21 may be inserted through either of the openings 19 for setting the L-shaped bars 10 and 17 respectively in the desired spaced relation.

In the use of this device, the same is adapted to be secured to the top of a silo, or to the edge of an opening therein, by properly adjusting the depending leg portions of the L-shaped plates 10 and 17 respectively, for disposition over the edge portions of the silo structure, after which the threaded members 15 are fed toward the silo wall, for clamping the plates 16 tightly thereto.

By this means of securing the support to the silo, the annular structure 1 will be disposed horizontally outwardly from the silo wall, so that by attaching a pulley shown by dotted lines in Fig. 3, and referred to by the numeral 22, one end of a cable trained thereover, may be secured to the blower pipe of the ensilage cutter machine, and the other end is pulled for elevating the pipe to a point adjacent the annular structure 1.

A workman may then arrange the pipe within the annular structure, by first disengaging the plate 3 from the eye bolt 6 and swinging the same outwardly. The pipe may then be disposed within the annular structure, and the eye bolt 6 again engaged with the hooked end of the plate, 3, so that by tightening the wing nut 9 against the follower 8, the plates 2 and 3 respectively will tightly grip the pipe and maintain the same in a vertical position, without liability that the same will easily become displaced and fall to probably cause injury to workmen nearby.

The blower pipe can be disengaged from the support with equal ease, and with a saving of time over supporting devices now used for this purpose.

It is also to be understood that certain changes in the shape, size, or materials, may be made in the manufacture of this device, without departing from the spirit of the invention or the scope of the appended claims.

Having thus described my invention, what I claim as new is:—

A pipe support of the class described comprising a clamp structure adapted to engage over the edge of a supporting wall, an annular clamp structure connected to said first mentioned structure, said annular clamp structure consisting of a pair of semi-circular members, said members being hingedly connected together at one of their ends, and means for securing the remaining ends of the members together, said first mentioned clamp structure consisting of an arcuate plate secured to one of said semi-circular members, bars connecting the ends of the

arcuate plate with said member, L-shaped members secured to said bars, each with one of its legs spaced parallel from one end of the arcuate plate, and clamp means for operation between said legs and plate for engagement with the upper edge of the wall.

In testimony whereof I affix my signature.
ADOLPH B. WEBER.