Sept. 22, 1925. 1,554,656

W. B. PUSEY

KNOCKDOWN TOWER

Filed June 16, 1924 2 Sheets-Sheet 1

Fig. 1.

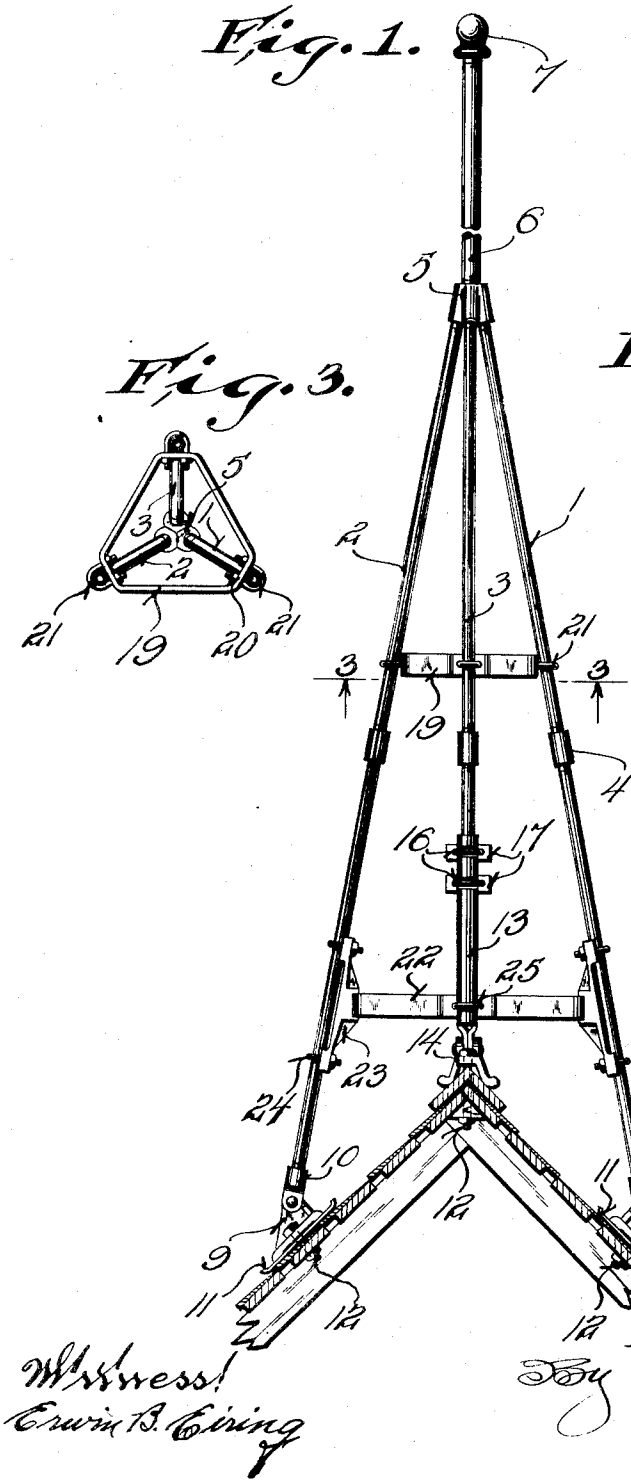
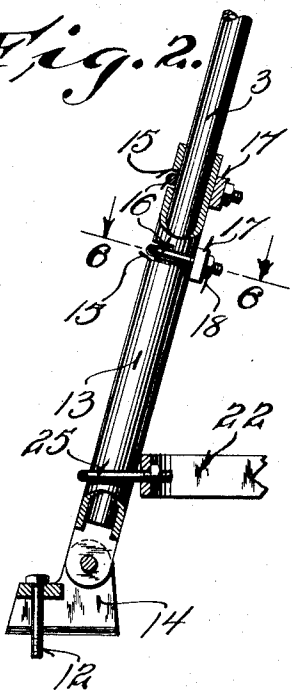


Fig. 3.

Fig. 2.



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Fig. 5.

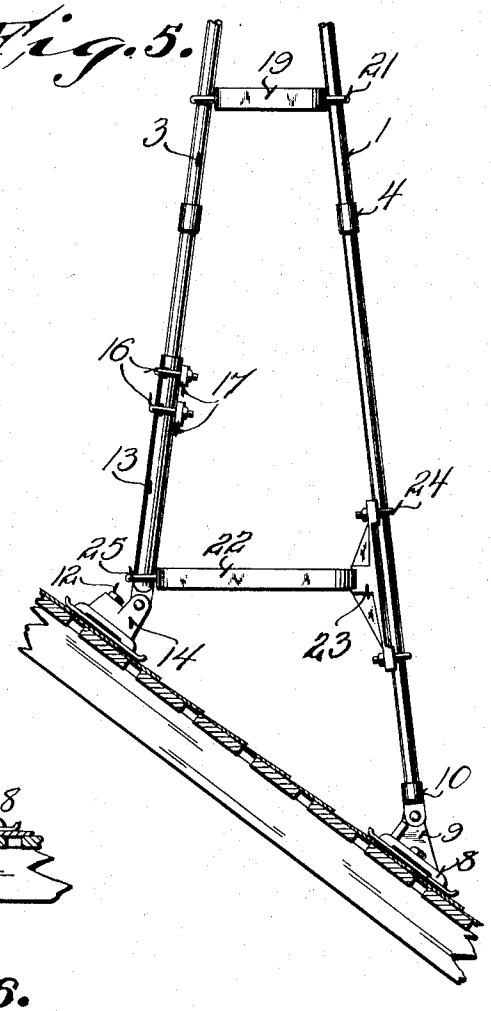


Fig. 4.

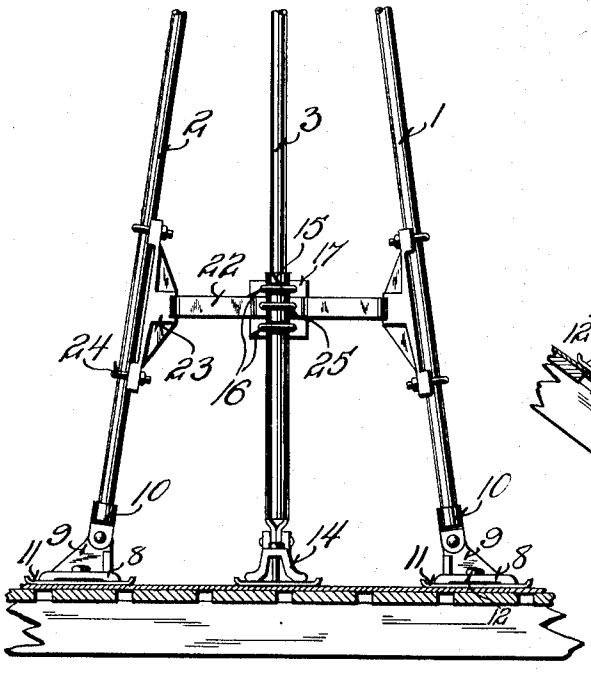
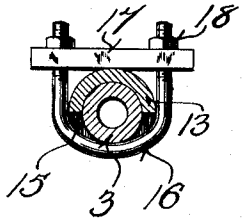


Fig. 6.



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UNITED STATES PATENT OFFICE.

WESLEY B. PUSEY, OF MILWAUKEE, WISCONSIN.

KNOCKDOWN TOWER.

Application filed June 16, 1924. Serial No. 720,398.

To all whom it may concern:

Be it known that I, WESLEY B. PUSEY, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Knockdown Towers; and I do hereby declare that the following is a full, clear, and exact description thereof.

This invention relates to knock-down towers, and is particularly directed to a tower adapted to be placed upon a roof for supporting aerials, flags, and other similar devices.

Objects of this invention are to provide a very strong type of tower which may be shipped in a knock-down condition, and may be most readily assembled when received, and positioned upon a roof.

Further objects are to provide a tower which is so constructed that it may be readily adjusted to adapt it to any type of roof whether of the flat, hip, double or single slope, and which is so constructed that it inherently provides this adjustment within itself without requiring any auxiliary means whatsoever.

Further objects are to provide a knock-down tower which is provided with three bracing and supporting legs tied together at suitable intervals, and with one of the legs provided with a telescopic portion to accommodate different types of roofs, and to provide a plurality of pivotally mounted feet for the bottoms of the legs so that they may be most readily fitted to the particular type of roof upon which the tower is set.

An embodiment of the invention is shown in the accompanying drawings, in which:—

Figure 1 is an elevation showing the tower in position upon a double angled roof.

Figure 2 is an enlarged fragmentary detail of the adjustable leg, such view being partly in section.

Figure 3 is a transverse sectional view on the line 3—3 of Figure 1.

Figures 4 and 5 are views showing the tower applied to other types of roofs.

Figure 6 is an enlarged detail showing a section on the line 6—6 of Figure 2.

It is preferable in constructing this tower to form it of tubular sections throughout, and such sections have been illustrated in the drawing, although it is to be distinctly understood that other commercial sections may be employed. The tower comprises three legs, a pair of master legs 1 and 2 and an adjustable leg 3. The legs are preferably formed of a plurality of lengths which are provided with threaded ends and joined by means of nipples 4, such threads being preferably pipe threads so that the nipples may lock in place. These legs converge towards their upper ends and their threaded upper ends are received in three threaded apertures in a fitting 5, such fitting being provided with an upper threaded aperture for receiving the lower threaded end of a standard 6. It may be found desirable to provide the tubular standard 6 of a greater diameter than that of the supporting legs 1, 2 and 3. In order to seal the opening in the member 6, and to provide an ornamental finish, a threaded cap 7 may be screwed upon the uppermost end of the standard 6. This cap may, if desired, be provided with a hook or eye or pulley or other means for receiving an aerial, flag or similar member, such fastening means being omitted from the drawing, as they are well known types.

The legs 1 and 2 are provided with pivotally attached feet 8. These feet are provided with upwardly extending webs 9 which are pivoted to lugs formed upon an end member 10 screwed to the lower end of the legs. If desired, a bearing plate, such as illustrated at 11, may be positioned beneath the feet to lessen the pressure per unit area upon the roof. These feet are provided with apertures and bolts or other suitable fastening means are employed and shown at 12, such bolts preferably passing through the roof boards, as shown.

The leg 3 is provided with a telescopic larger tubular portion 13 at its lower end, as shown in the enlarged view of Figure 2. This tubular member 13 is provided with a pivotally mounted foot 14, preferably provided with a pair of spaced supporting feet, so that these feet may fit upon opposite sides of the peak of a roof, as shown in Figure 1, or may rest upon the plane portion of a roof, as shown in Figure 4. This tubular member 13 slidably receives the smaller portion of the leg 3, as clearly shown in Figure 2, and is provided with a pair of slots 15 extending through about half of its depth. Within these slots lock U-bolts 16 are positioned with their outer ends passed through locking bars 17. When the nuts 18 are screwed tight, the smaller portion of the leg 3 is rigidly locked to the enlarged or tubu-

lar portion 13 thereof in the exact adjusted position desired.

The legs 1, 2 and 3 are braced by means of a triangular strap like member 19 (see Figures 1 and 3) which is provided with flat faces 20 against which the legs bear, U-bolts 21 being employed to attach the brace to the legs. The lower portion of the legs is braced by means of a similar member 22 provided with a pair of fittings 23 secured by means of U-bolts 24 to the legs 1 and 2. This brace is further provided with a U-bolt 25 (see Figures 1 and 2) which is passed around the tubular portion 13 of the leg 3.

When the tower is transported or shipped to the customer, it is in a knock-down condition. When it is received, the customer may most readily assemble it in a very simple manner, and will thus be equipped with a strong light weight metal tower.

He may then adjust the member 13 of the leg 3 to adapt the device for the particular roof upon which it is to be used, thereafter, tightening the U-bolts 16 and locking the leg 3 in its adjusted position. The bolts 12 are then passed through the several feet and the device is securely attached to the roof.

It is to be noted that when the device is applied to the ridge of a roof, as shown in Figure 1, the leg 3 is shortened and the foot 14 spans or rests upon the ridge pole. When the device is fastened to a flat roof, the leg 3 is adjusted to the same length as the legs 2 and 4, as shown in Figure 4. When the device is applied to the side of a slanting roof, the leg 3 is shortened and is positioned uppermost upon the roof, as shown in Figure 5.

In positioning the device upon a roof, the master legs are secured in place by attaching and fitting to the roof as previously described. Thereafter, the adjustable leg is adjusted to the exact requirements to secure a vertical positioning of the tower. This permits a very accurate positioning of the tower and also secures this exactness with a minimum of effort on the part of the operator.

It will be seen that a very strong, attractive and light weight metal tower has been provided which may be shipped in a knock-down condition, and may be most readily assembled.

It will further be seen that a tower has been provided which may be attached to any type of roof with the utmost facility.

Although the invention has been described in considerable detail, it is to be understood that the invention may be variously embodied and is, therefore, to be limited only as claimed.

I claim:

1. A tower consisting of a pair of master legs of fixed length, an adjustable leg, a fitting joining the upper ends of said legs, said legs diverging downwardly from said fitting with said adjustable leg equally spaced from each of said master legs, feet pivotally carried at the lower end of each of said master legs, a foot pivotally carried at the lower end of said adjustable leg and adapted to be attached to a roof after the feet of said master legs have been attached, means for locking said adjustable leg in any desired position of adjustment, and bracing joining said legs.

2. A knockdown tower consisting of a pair of master legs of fixed length, an adjustable leg, a fitting detachably joining the upper ends of said legs, a mast projecting upwardly from and detachably carried by said fitting, said legs diverging downwardly from said fitting, a foot pivoted to the lower end of each of said master legs, a channel-shaped foot pivoted to the lower end of said adjustable leg, said adjustable leg having a telescopic lower portion, means for locking said telescopic portion in adjusted position, and bracing joining said legs.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

WESLEY B. PUSEY.