

## Selection of Tower

A windmill tower of galvanized steel, carefully designed, made from same patterns, every part in each tower a duplicate of the similar part in every other tower is, certainly the best proportioned, strong and safe. Every style of tower should be thoroughly tested before put on the market, that the builder may know exactly how much wind strain they will stand. Every piece must be made to gauge, so that when the tower is assembled it will be in perfect alignment. The manufacturer who makes towers with adjustable braces of wires or threaded rods thereby confesses that he cannot turn out work accurate enough to go together without adjustment. The alignment of the tower and the length of the various parts should be made by the manufacturer, and should not be left to the erector, who may be extremely careful but is frequently inexperienced.



Heller-Aller towers have been made the Standard Tower by The United Wireless Telegraph Company, being chosen by that company as the strongest and most rigid tower constructed by any manufacturer in the United States, and this fact alone is a further guarantee of what we claim for these Heller-Aller Towers.

A windmill should be at least 15 feet above all houses, barns, trees or other wind obstructions within 400 feet.

Select a tower high enough to catch the lightest wind that blows from any point of the compass. Do not be satisfied with a good wind exposure on one side of the mill because your prevailing winds are from that direction. It should be high enough to catch the light winds which blow from the other directions, and it will then be above the eddying, changeable ground currents. We have sold hundreds of extensions to increase the height, but we have never known of one being lowered. A few dollars, spent in getting a higher tower in the first place is a good investment. More windmills are damaged or destroyed on account of being placed on low towers in close proximity to buildings and trees than from any other cause, and no manufacturer can consistently guarantee windmills and towers when they have not been properly selected to fit the conditions with which they will be surrounded.

Fig. 572

940 597-7735

# Heller-Aller Angle Steel Stub Tower and Platform to be Used on Top of Towers

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The four posts of tower should be cut off at top at proper distances, so as to permit stub to slip over outside of corner posts.

While the Run-In-Oil Baker Mills will fit most of the different make towers, nevertheless there are cases where a short stub tower will be very convenient. For this purpose we can furnish four-post galvanized stubs at prices stated below.

A square platform is much safer to stand upon than a small round platform. Our platform is made of the best selected lumber, and given two coats of paint. It is large, well made, and firmly bolted to two heavy steel angles which are bolted to the tower with large galvanized bolts. The corner of platform corresponding with corner of tower having the ladder steps is made so as to be easily accessible, safe and convenient.

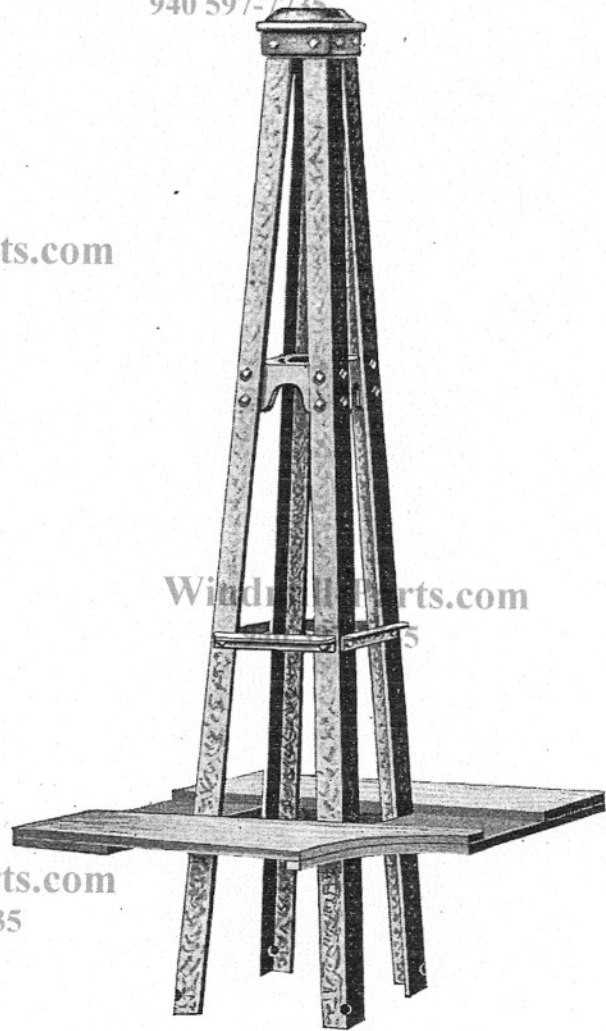


Fig. 578

## FOUR-POST STUB TOWERS

| Article                                         | Weight Lbs. | List Price |
|-------------------------------------------------|-------------|------------|
| 6½-ft. Stub with Platform and Pull-out Lever    | 112         | \$11.00    |
| 5 -ft. Stub with Platform and Pull-out Lever    | 100         | 9.70       |
| 4 -ft. Stub, less Platform, with Pull-out Lever | 66          | 7.00       |
| 3 -ft. Stub, less Platform, with Pull-out Lever | 58          | 6.00       |
| Wood Platform only, Painted                     | 22          | 1.30       |
| Wood Pull-out Lever with Cushion Spring         | 8           | 2.00       |

NOTE—We can supply Stub Towers for Three-Post Towers at same price as Four-Post.

## TOWER WRENCH

Holds nuts 5/16 and 3/8 inch. List price each—\$0.35



Fig. 377

## Heller-Aller Corner Step Ladder

(Galvanized Steel)

Our improved ladder steps are attached to the corner posts of the tower. They are made from heavy galvanized steel, being plenty broad to accommodate the foot. Our method of fastening these steps to the corner posts assures you that they will never become loose. The outer edge is securely clamped over the corner of angle and then firmly held in place by a heavy galvanized bolt. There are no rivets to rust and break off. No ladder rungs to rust through and make the ascent dangerous. On Heller-Aller Towers you ascend by a gradual incline. You cannot come into contact with the side braces. Heller-Aller steps afford the only safe and easy ascent during the entire life of the tower.

For price, see page 121.

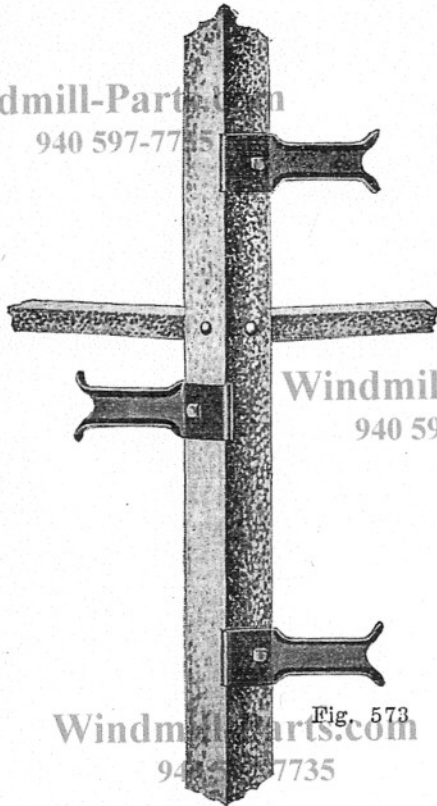


Fig. 573

## Heavy Steel Anchor Posts and Plates

Galvanized steel anchor posts are furnished with all of our towers. For towers up to and including 45 feet in height the anchor posts are 4½ feet long. Anchor Posts 5 feet long are furnished with towers 50 feet and higher.

The anchor plates are 9 inches square and are by far the heaviest and largest furnished by any manufacturer. When the mill is erected in firm clay soil we advise throwing loose stone in, then earth and thoroughly tramping down till holes are filled to surface. When in sandy soil a plank should be bolted to bottom of plates and extending from one corner to another.

Attention is also called to the lower end of anchor posts, which is turned out on either side affording additional anchorage; and, independent of any bolts, in connection with the heavy plates affording the most perfect anchorage for any windmill tower.

When ordered with towers, no extra charge is made for anchor posts or plates.

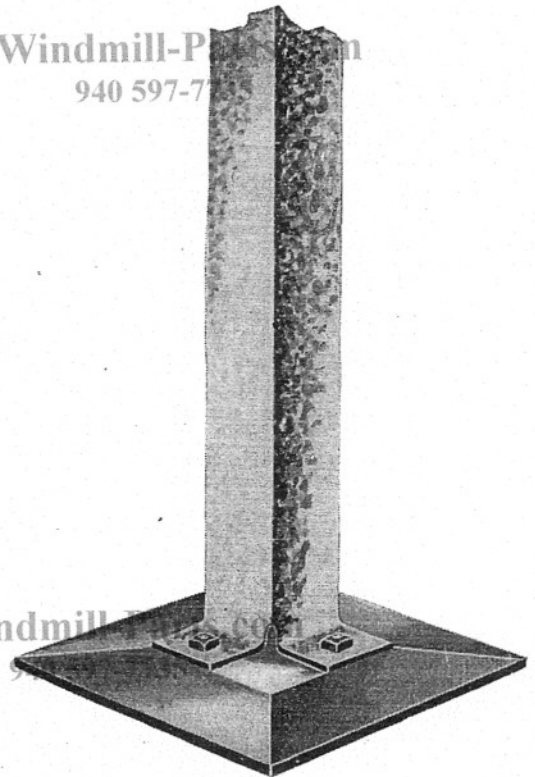


Fig. 576

| Article                                  | No. 2  | No. 3  |
|------------------------------------------|--------|--------|
| Anchor Posts, per set (List Price).....  | \$5.50 | \$6.00 |
| Anchor Plates, per set (List Price)..... | 2.60   | 2.60   |

No. 2 Anchor Posts are used on both No. 1 and No. 2 Four-Post Towers.