A. J. BATES.

FENCE POST STUB.

APPLICATION FILED MAR. 26, 1912.

1,083,582. Patented Jan. 6, 1914.

Fig. 1.

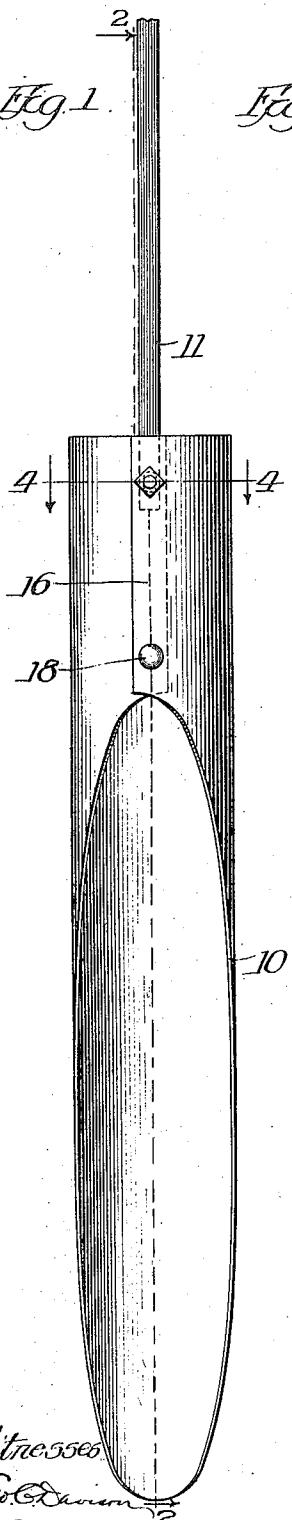


Fig. 2.

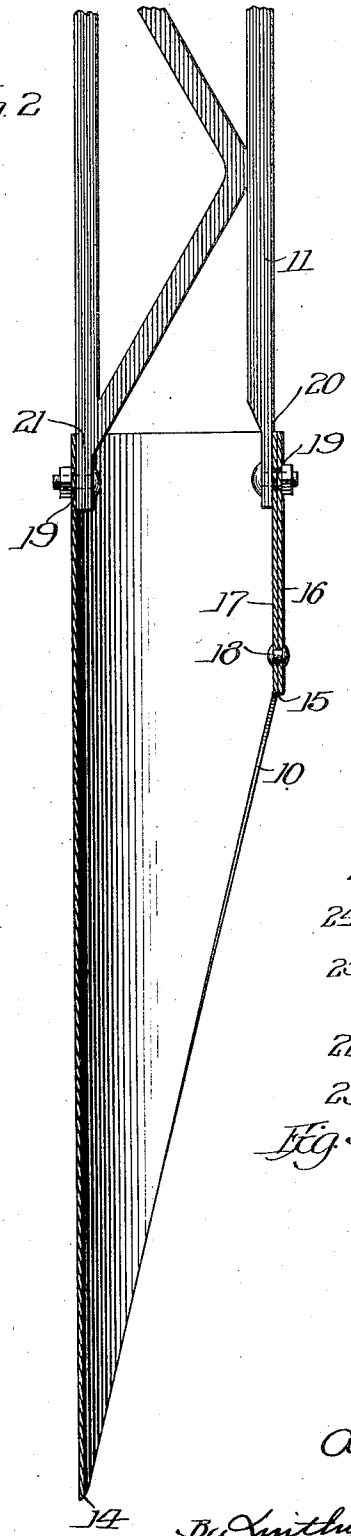


Fig. 3.

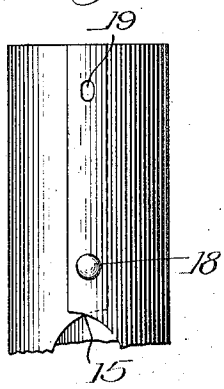


Fig. 4.

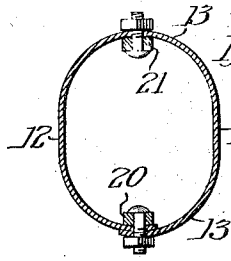
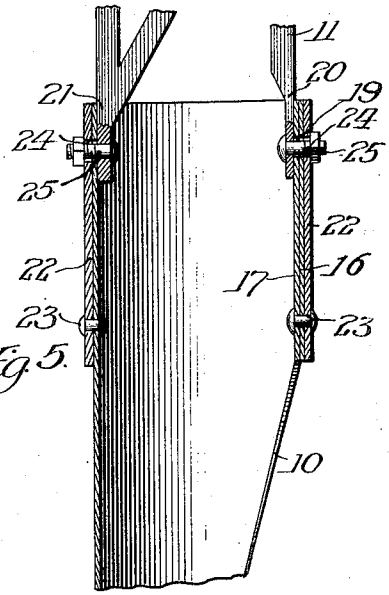


Fig. 5.



Witnesses:
Geo. C. Dunn
F. C. Carpenter

Inventor:
Albert J. Bates

By Smith, Cum, Belt & Fuller
Attys.

UNITED STATES PATENT OFFICE.

ALBERT J. BATES, OF CHICAGO, ILLINOIS.

FENCE-POST STUB.

1,083,582. Specification of Letters Patent. Patented Jan. 6, 1914.

Application filed March 26, 1912. Serial No. 686,362.

To all whom it may concern:

Be it known that I, ALBERT J. BATES, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fence-Post Stubs, as set forth in the following specification.

My invention relates generally to means for securing fence posts of various sorts in the ground, and aims to provide a fence post stub which may be quickly and easily driven into the earth, and which will secure the post attached thereto more efficiently than has heretofore been possible with devices of this sort.

A principal object of my invention is to provide a device of the character described of such shape that the base of a post may be securely fastened thereto without danger of becoming loosened by breaking the means connecting the post and stub together through the application of any force applied laterally to the top of the post.

A further object of my invention is to so construct the said stub that it will combine a maximum strength with a minimum amount of material.

A still further object is to provide a fence post stub which may be quickly and securely driven into the ground, which may be quickly and easily removed, and which will so engage the earth that it will successfully resist the tendency frequently possessed by such devices to work loose by enlarging the opening made by the stub when it is driven into the ground.

Additional objects and advantages of my invention will be apparent as it is better understood from the following description which, taken in connection with the accompanying drawing, illustrates one preferred embodiment thereof.

Referring to the drawings:—Figure 1 is a front elevation of a stub made in pursuance of my invention connected to the bottom of a fence post; Fig. 2 is a vertical sectional view taken on the line 2—2 of Fig. 1, showing means of securing the bottom of a post to the stub; Fig. 3 is a front elevation of the top of the stub with the post removed; Fig. 4 is a sectional view of the stub taken on the line 4—4 of Fig. 1, and Fig. 5 is a sectional view similar to that in Fig. 2 with the lower part of the stub broken away showing my reinforcing plate.

For the purpose of illustration I have shown a stub 10, embodying various features of my invention, secured to the bottom of a fence post 11 of the form described in U. S. Letters Patent 1,006,047 for truss structures, and 1,005,925 for method of making truss structures, both granted me on October 17th, 1911, although obviously any desired form of post may be employed with equal efficiency. The stub 10 is composed of a single metallic sheet shaped to form a tube, preferably flattened upon two opposite sides 12. The sides 13 of this tube between the said flattened portions are rounded, and are preferably substantially semi-circular in cross section, although it is understood that the said flattened portions may be omitted and the tube made circular or elliptical in cross section without departing from the spirit and scope of my invention. The metallic sheet constituting the said tube is cut away from its bottom 14 upwardly throughout the greater part of the length of the tube on each side of a median line to shape the bottom opening of the finished tube in a plane inclined to the longitudinal axis of the said tube as is shown in Fig. 2. The side edges 16 and 17 of the sheet are overlapped above the topmost point 15 of the bottom opening of the tube, and are permanently secured in said position by means of the rivet 18, although other fastening means may be provided and, if thought advisable, the edges may be overlapped elsewhere, as for example at the rear or along a side of the stub, or the tube may be drawn and the bottom cut away to give an opening of desired shape.

To secure the bottom of the post to the stub I provide a pair of alined apertures 19 adjacent the top of the stub, and on opposite sides, one of these apertures preferably extending through the overlapped edges of the sheet, in which bolts or screws may be inserted to secure the post in place.

While I have shown the post as composed of the two bottom members 20 and 21, each of which is secured to the stub by a bolt extending through one of the said apertures, it will be manifest that should a post having a solid base be used a single bolt may be positioned through the said base and through both apertures to securely fasten the stub to the post. The apertures are preferably elongated as is best shown in Fig. 3 to permit adjustment of the bolts to bring the posts to vertical position.

It is obvious that where a post is fastened as hereinbefore described to a stub made in pursuance of my invention the two are secured together in such manner that the forces exerted laterally against the top of the post are distributed about the entire periphery of the stub. Moreover, it will be readily understood that the tubular shape of the stub will effectually prevent it from buckling or breaking, permitting such a stub to be manufactured of desired strength from substantially thinner material than is possible where the stub is formed of a plurality of plane surfaces intersecting at angular edges.

While the means I have shown for connecting the side edges of the metallic sheet together and stub to the base of the post are of ample strength under ordinary conditions, I provide for use in connection with fences designed to sustain severe strains the reinforcing plates 22 disposed on opposite sides of the stub and riveted thereto as at 23. These plates are provided with apertures 24 similar to the apertures 19 of the stub and alining therewith to receive the bolts 25 which secure the stub to the base of the post. It will be manifest, moreover, that various minor changes in the form of the stub, the means of connecting the side edges of the sheet together and the means of connecting the said stub to the base of the post may be resorted to without departing from the spirit or scope of my invention or sacrificing any of its advantages, the form hereinbefore disclosed being merely one preferred embodiment thereof.

I claim:—

1. A fence post stub, comprising a sheet of suitable metallic material shaped into a cylinder having substantially flat side walls and curved end walls, defining respectively the minor and major transverse axes of the stub, the longitudinal edges of said sheet being overlapped and secured together along a plane embracing the major transverse axis of the stub, one end of the stub being disposed in a plane obliquely intersecting the longitudinal axis of the stub so that the shortest and longest longitudinal dimensions of the stub lie on opposite sides of the longitudinal axis and in the plane of the major transverse axis, the joined edges of the sheet being positioned along the shortest longitudinal dimension of the stub.

2. The combination of a fence post stub, comprising a sheet of metallic material shaped into a cylinder having transverse axes of various lengths, the lower end of said cylinder being tapered obliquely to the longitudinal axis of the said cylinder, so that the longest and shortest longitudinal dimensions of the stub lie in the plane of the major transverse axis of the cylinder, the upper end of said cylinder being provided at opposite sides in the plane of the major transverse axis with longitudinally elongated slots, a fence post constructed to engage the opposite faces of said stub adjacent to said slots, and bolts engaged with said post and slots to secure the post to the stub, said slots permitting adjustment of the post relatively to the stub in the plane of the major transverse axis of the stub.

ALBERT J. BATES.

Witnesses:
WM. O. BELT,
M. A. KIDDIE.