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SIGN ANCHOR

Filed June 7, 1926

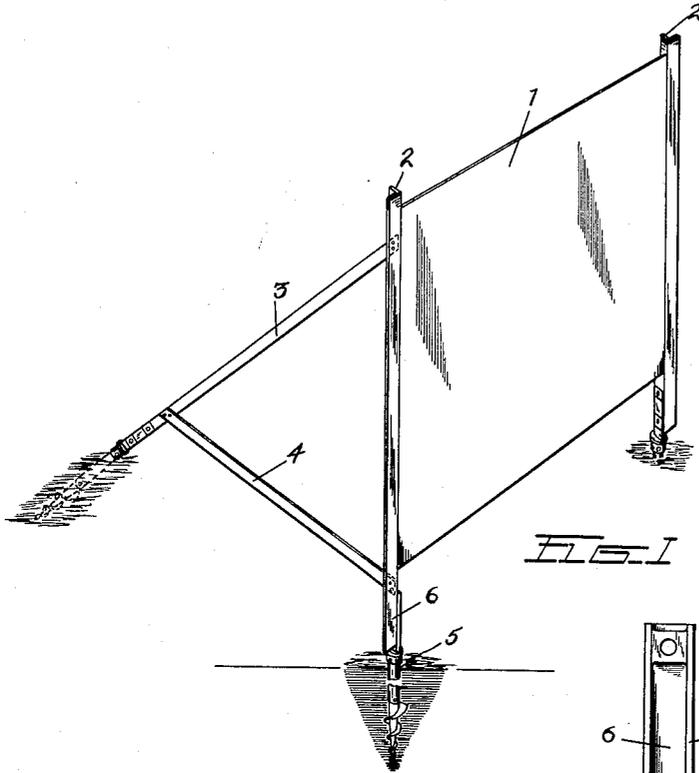


FIG. 1

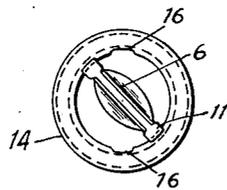


FIG. 3

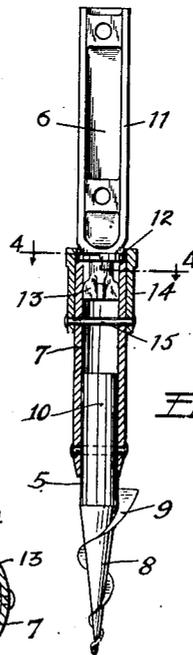


FIG. 2

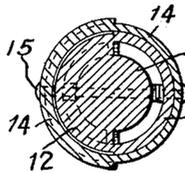


FIG. 4

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## SIGN ANCHOR

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This invention relates to a fastening means for readily attaching bars, posts and like parts of structural frame-work to their supports.

5 The invention is particularly applicable in the erection of signs and similar structures.

An object of this invention is to provide a support which may be readily positioned and need not be aligned with other supports.

10 Another object is to provide a support which may have an attaching part adjusted after the support has been placed to align such part with the parts of the structure to which it is to be attached.

15 Other objects will hereinafter appear.

The invention will be better understood from the description of the practical embodiments thereof illustrated in the accompanying drawings in which—

20 Fig. 1 is a perspective view of a sign supported upon the ground by a supporting means embodying the present invention;

Fig. 2 is a side elevation partly in section of a device embodying my invention.

25 Fig. 3 is a plan view, still further enlarged, of the means shown in Figs. 2 and 3; and

Fig. 4 is a transverse section on line 4—4 of Fig. 2.

30 In Fig. 1 a sign board is illustrated at 1, the ends of which are attached to vertical angle bars 2. Inclined braces 3 extend rearwardly from the sign and brace the frame, being connected to the angles by horizontal ties 4 extending therebetween. The ends of the angles 2 and of the braces 3 are connected to means embodying the present invention which means are shown as partially embedded in the ground to support and anchor the structure.

40 The supporting means comprise an auger-like anchor indicated generally at 5 and an upper extension 6 swiveled thereto so that the extension is rotatable about an axis longitudinal of the anchor but prevented from bending with respect thereto by means hereinafter described.

The extension 6 is attached by bolts, rivets or any other suitable fastening means to the channels 2 and the braces 3, above described.

50 Referring now more particularly to Figs.

2, 3 and 4, the anchor comprises a shank 7, shown as a piece of metal tubing, to the lower end of which is attached a pointed head 8 provided with helical auger-like blades 9 which are adapted to be screwed into the ground and firmly retain the anchor in place.

The head 8 is shown as provided with a shank 10 which projects within the tube 7 and is secured thereto as by countersunk rivets or the like, the fastening means preferably being such that unnecessary projections on the exterior of the anchor are avoided.

The member 6 consists of an upwardly extending flat portion 11 to which the supported member are attached as by bolts passing through the holes provided therein. Below this portion the member is provided with a flange 12, the lower surface of which rests upon the upper end of tube 7. Beyond the flange the member is extended and provided with a cruciform end 13 which abuts the inner walls of tube 7 and thus prevents the support from bending at the connection of the anchor and extension.

A cap 14 surrounds the upper end of tube 7 and flange 12 and is provided with an inwardly directed flange overlying the upper side of flange 12 to retain the same tightly against the end of tube 7. The cap is retained in place as by a bolt 15 passing through and through the tube 7 below end 13 of the upper member. Due to the long distance between bearing points of the upper part of flange 12 and the lower part 13, the tendency of the two members to bend relative to each other is prevented while the upper member may rotate freely within the tube. The flange 12 is so held that longitudinal movement of the parts is also prevented. It will thus be seen that the auger may be inserted in the ground in alignment with the framework it is to support and sunk to the desired depth without regard for the angular position of the attaching part and thereafter this part can be turned in pipe 13 to any desired position for attachment to the members of the supporting structure.

In Fig. 3 the cap is shown as provided with a flange the inner diameter of which is less than the width of part 11 and the flange

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is therefore notched as indicated at 16 so that it may be readily slid over this member and yet will provide a large bearing on the top of flange 12.

5 It will be understood that the tubular member 7 is anchorable and carries the extension 6 which serves as a sign board supporting member. The flange 12 of supporting member 6 constitutes an annular shoulder 10 with substantially parallel upper and lower end surfaces disposed in planes transverse to the longitudinal axis of the supporting member 6, the lower surface engaging or resting on the upper end surface of the anchorable member 7, and the upper surface 15 being engaged by the inwardly extending portion of the cap 14. This cap connects the anchorable member so as to be telescopically positioned with respect to both the anchorable and supporting members. 20

It will be obvious that many changes and variations may be made in the structure herein disclosed and it is my intention to include all such variations and modifications thereof falling within the scope of the subjoined 25 claims. Moreover, while I have shown angle bars forming parts of the superstructure, I may substitute therefor tubing or other steel shapes or wood.

30 I claim:—

1. A sign board support comprising an anchorable member having an annular surface disposed in a plane transverse to the longitudinal axis of the said member, a supporting member telescopically assembled 35 with the anchorable member and having an annular shoulder provided with annular upper and lower substantially parallel surfaces disposed in planes transverse to the longitudinal axis of the anchorable member, the 40 lower surface thereof being adapted to rest on the said annular surface of the anchorable member, and connecting means secured to the anchorable member and having a portion engaging the said upper surface of the 45 said annular shoulder of the supporting member, the said anchorable and supporting members being freely rotatable, but substantially immovable in longitudinal and lateral directions, relative to each other. 50

2. A sign board support comprising an anchorable member having an annular upper surface disposed in a plane transverse to the axis of the member, a supporting member 55 having an annular shoulder provided with annular substantially parallel upper and lower end surfaces disposed in planes transverse to the longitudinal axis of the supporting member, the lower end surface being adapted to rest on the said annular surface 60 of the anchorable member, and a connecting member secured to the anchorable member, assembled in telescopic relation with both the anchorable and supporting members and 65 having a portion engaging the said upper

end surface of the said annular shoulder of the supporting member, the said anchorable and supporting members being freely rotatable but substantially immovable in longitudinal and lateral directions relative to each other. 70

3. A sign board support comprising a tubular anchorable member, a supporting member having a portion extending into the tubular member with close fitting engagement with the inner surface thereof over an extended longitudinal length, and having an annular shoulder resting on the end of the tubular member, and a connecting member 75 secured to the tubular member and having a portion engaging the top of the said annular shoulder of the supporting member, the said anchorable and supporting members being freely rotatable, but substantially immovable in longitudinal and lateral directions, relative to each other. 80 85

4. A sign board support comprising a tubular anchorable member, a supporting member having a portion extending into the tubular member with close fitting engagement with diametrically opposite portions of the inner surface of the tubular member remote from the end of the latter, an annular shoulder on the supporting member resting on the said end of the tubular member, and a sleeve telescopically engaging and being secured to the anchorable member and having an inwardly projecting end portion engaging the top of the annular shoulder of the supporting member, the said anchorable and supporting members being freely rotatable, but substantially immovable in longitudinal and lateral directions, relative to each other. 90 95 100

In testimony whereof I hereunto affix my signature this third day of June, 1926. 105

HAROLD AUBREY TYSON. 110

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