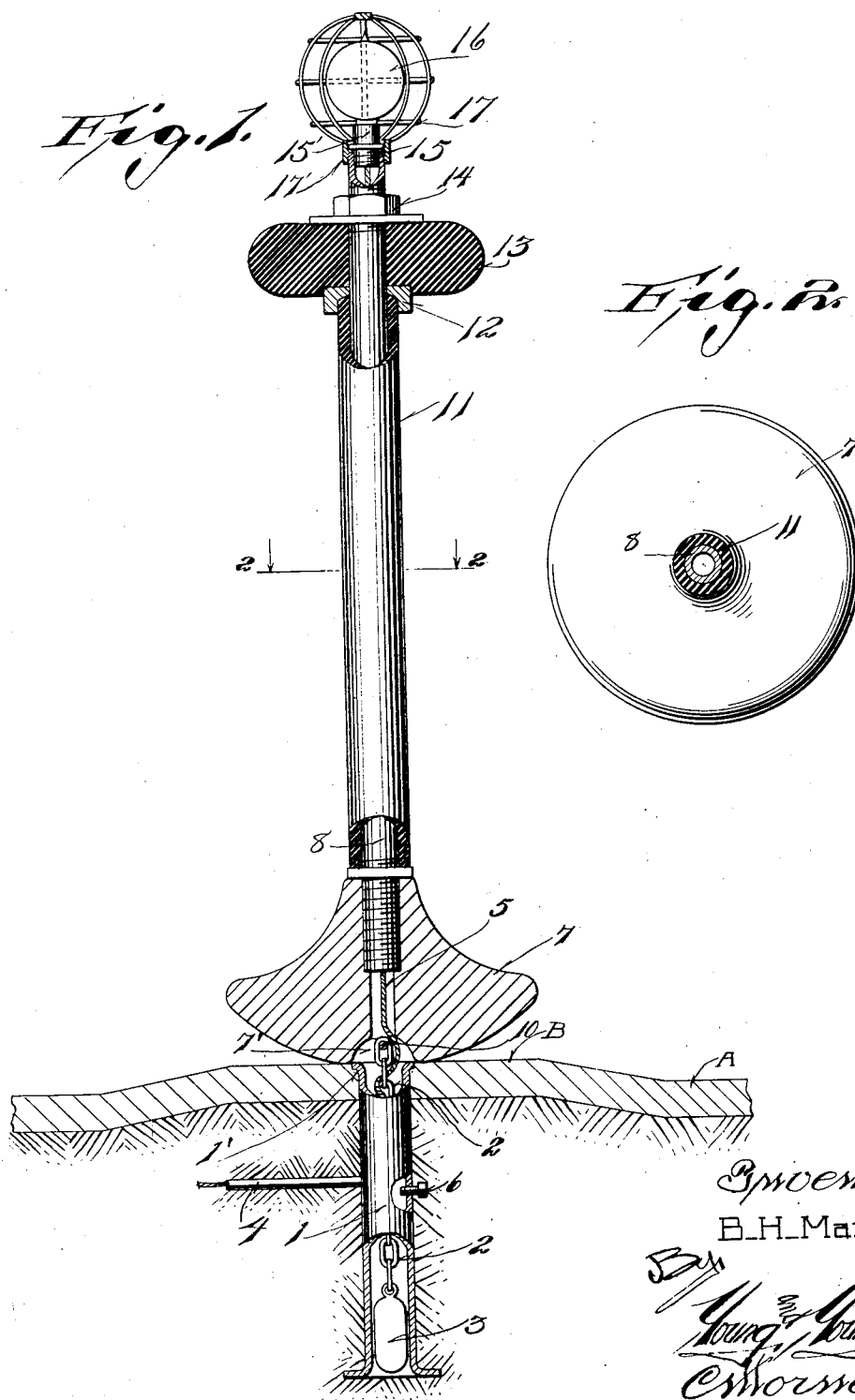


B. H. MANN.
TILTABLE SIGNAL POST.
APPLICATION FILED JAN. 26, 1920.

1,370,697.

Patented Mar. 8, 1921.



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TILTABLE SIGNAL-POST.

1,370,697.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BENJAMIN H. MANN, 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 Tilt-able Signal-Posts; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple, economical and durable, tiltable signal post provided with a weighted base or shoe having its bottom curved upwardly to permit freedom of motion of the post in all directions whereby it will yield under a slight blow should it be inadvertently struck by a vehicle or other moving object, under which conditions the post will automatically assume a vertical position upon being relieved from strain. Thus it will be seen that the post is arranged to resist the force of a blow without damage to its structure or to the object striking it.

Another object of the invention is to provide a post of this character which is so simple in its construction and durable that it cannot be readily damaged either by blows or by weather conditions. In practice the signal post may be employed as a substitute for the ordinary corner light or lamp-post or it may be placed in safety zones or crossings and is especially adapted for location in the street where it is desirable to warn traffic as to danger.

With the above objects in view, the invention consists in certain peculiarities of construction and combination of parts as hereinafter set forth with reference to the accompanying drawing and claims.

In the accompanying drawing:

Figure 1 represents an elevation of a signal post embodying the features of my invention, with parts broken away and in section to more clearly show structural features, the post being shown mounted upon a slight elevation in a street or roadway, and

Fig. 2 is a cross section of the same as indicated by the line 2—2 of Fig. 1.

Referring by characters to the drawing, A represents the roadway provided with a slightly raised base portion B, the same being raised to permit ready drainage in all directions from the post which is mounted thereon. The base B is provided with a central well which is formed by a tube or shell

1 that extends a predetermined depth into the ground. The mouth of the tube is slightly flared as shown at 1' and said tube has loosely suspended therein a chain 2 provided with a weight 3 at its lower end. The tube is also in communication with a conduit 4 whereby feed wires 5 are supplied for a suitable signal lamp. The feed wires in entering the tube are given sufficient slack so as to prevent breakage thereof and they may be interwoven with links of the chain 2. In order to limit the upward movement of the chain with relation to its well, the tube is provided with a stop 6, which stop is in the form of a set screw having its end extending into the tube and adapted to engage the weight 3 whereby further displacement of the chain in the tube is limited.

Mounted upon the base B is a circular shoe 7, which shoe is preferably formed from solid metal so as to constitute a weight of sufficient volume to vertically support a hollow column 8, the bottom of which column is in threaded union with an aperture that extends through the shoe. The bottom surface of the shoe is as shown curved upwardly and outwardly from its central portion in all directions so as to permit a rocking movement in all directions of the shoe upon its flat base. The central portion of the bottom of the shoe is provided with a flared recess 7' having fitted therein a stud 10, which stud is secured to the upper end of the anchor chain 2. The column 8 has fitted thereon a rubber tube or shield 11 whereby the same forms a cushion or protector for the collar as well as to form a shield to prevent damage incidental to the collar being struck by a vehicle. The shield 11 is fitted into a cupped flange 12 at its upper end, which flange is secured to the column 8, and mounted upon the column 8 above the flange is a circular rubber buffer 13 as confined by means of a washer and clamping nut 14, the same being in threaded union with the column. The column 2 terminates with a threaded connection for a suitable insulated bushing 15 which carries a standard lamp fixture 15' having mounted therein a standard bulb 16, to which the feed wires 5 supply current for the light, it being understood that a suitable switch mechanism may be employed to control the light. The bulb 16 is protected by a heavy wire cage 17, which terminates at its lower end with a col-

lar portion 17' that is threaded to the outer surface of the column 8.

While I have shown and described a signal post embodying the essential features of my invention in all of its detail, it is understood that I may vary the structural features of my invention without departing in any manner from the spirit of my invention.

10 It should be noted that in carrying out my invention, I have avoided all springs or other sensitive mechanisms which may become disarranged by continual usage or under severe climatic conditions.

15 It is apparent from the description that the weighted shoe is of sufficient dimensions to cause the column to return instantly to a vertical position should it be pushed downwardly in any direction, and when so pushed
20 the shoe rocking upon its base, will cause the chain to ride slightly out of its well whereby the rocking movement of the post will be freely permitted, but should a blow upon the post tend to force it from its seat,
25 the chain will limit the movement of the shoe upon its base by the weight 3 coming in contact with the stop 6, and thus after the column or post has been laid down, it will automatically rock to vertical position, and
30 the chain by gravity will run back into the well. The buffer 13 is circular in form and serves to protect the post against damage at a predetermined distance from the street, and also serves to protect vehicles which
35 may contact with it. This buffer in practice is an important factor of the structure, due to its protecting qualities.

It is also obvious that various day-signals may be associated with the top of the post,
40 and that the lights used in connection with it may be of any desired color, and if desired certain signal signs as to streets and crossings may be attached to the post, other than those mentioned.

45 I claim:

1. A tiltable signal-post comprising an elevated supporting base having a well therein, a weighted shoe loosely mounted upon the base over the well portion thereof,
50 the bottom of the shoe being curved upwardly from its central portion and adapted

to rock upon the base surface, a hollow tube in threaded union with the base weight aperture, a signal globe mounted upon the upper end of the hollow tube, a yielding
55 bumper collar mounted upon the tube directly under the globe, a shell embedded below the supporting base and having an open mouth in register with the weight aperture, and an anchor chain connected to the base
60 weight and extending into the well and means extending from the well through the base weight and collar for supplying light to the globe.

2. A tiltable signal post comprising an elevated base having a well therein, a weighted shoe loosely mounted upon the base over the well portion thereof, the bottom of the shoe being curved upwardly from
70 its center portion and adapted to rock upon the base surface, a column extending from the shoe, a signal globe attached to the upper end of the post, a yielding bumper collar carried by the column below the signal globe, and an anchor chain connected to the
75 center portion of the shoe and extending into the well.

3. A tiltable signal post comprising a signal base having a well therein centrally apertured, a weighted shoe loosely mounted
80 upon the base over the well portion thereof, the bottom of the shoe being curved upwardly of its center portion and adapted to work upon the base, a hollow column fitted to the base aperture, a tube embracing the
85 column, a yielding bumper collar fitted to the column above the tube, an electric globe mounted upon the upper end of the column above the bumper, said globe being of less diameter than said bumper whereby it is
90 protected, an anchor chain connected to the central portion of the shoe and extending into the well, a stop carried by the well, to limit the upper movement of the anchor chain, and conductor wires extending from
95 the well to the globe.

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

BENJAMIN H. MANN.