July 12, 1938. R. W. HISER 2,123,420

SELF-RIGHTING SUPPORT

Filed March 8, 1937

FIG. 1

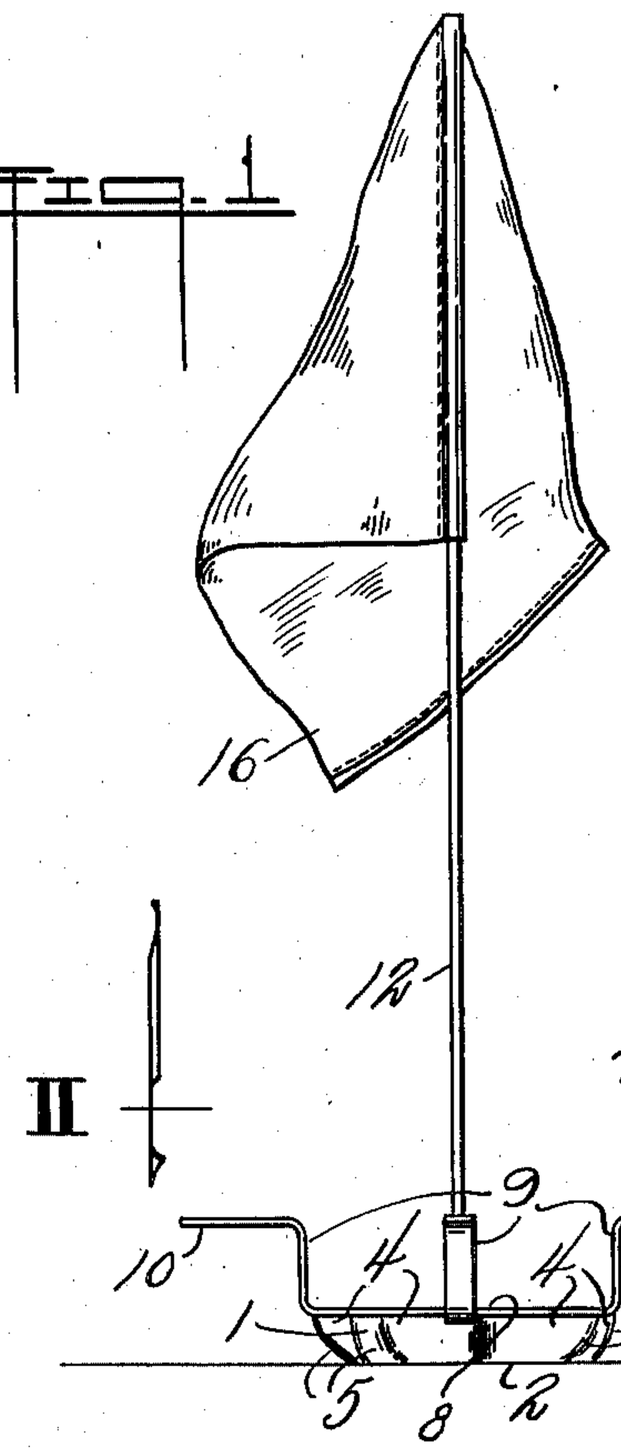


FIG. 3

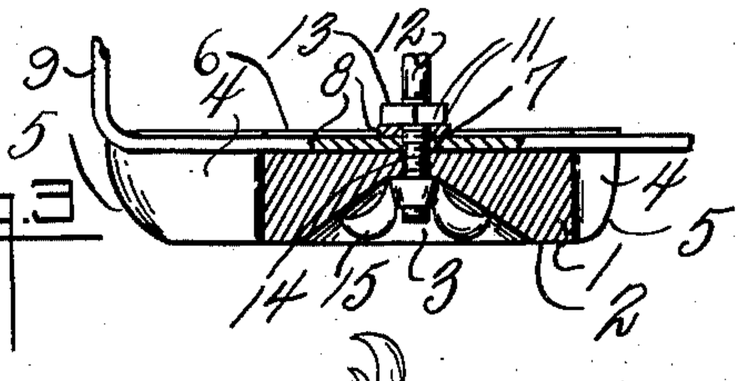


FIG. 4

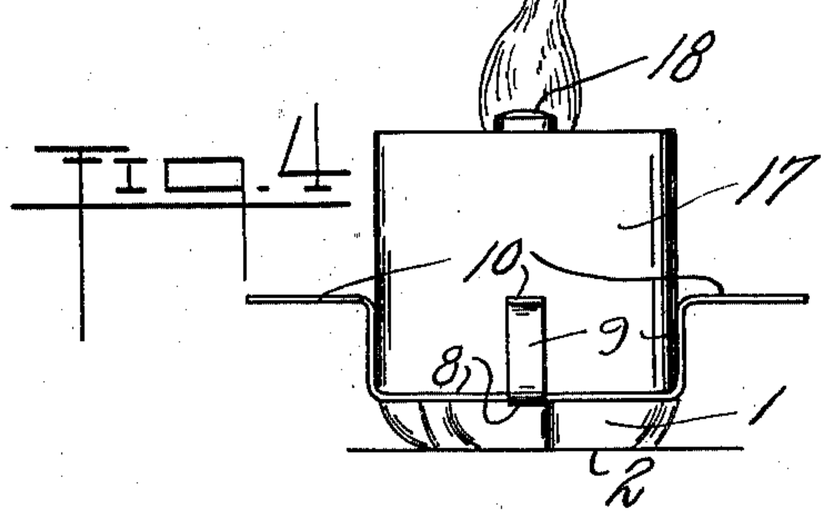


FIG. 2

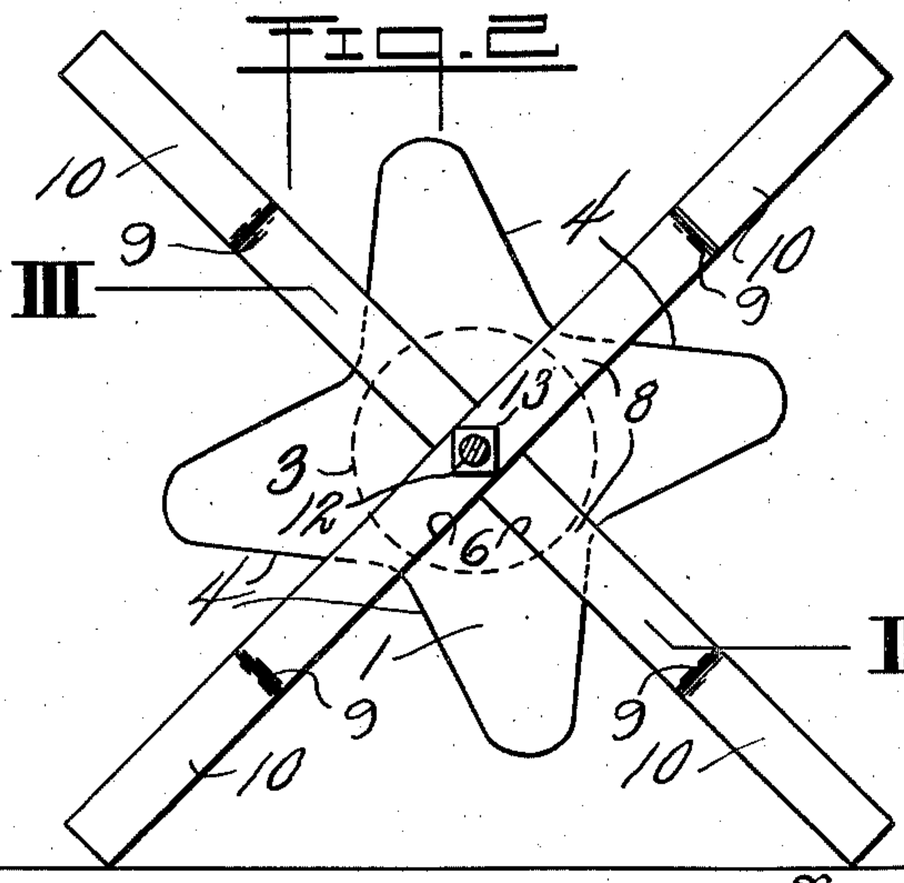
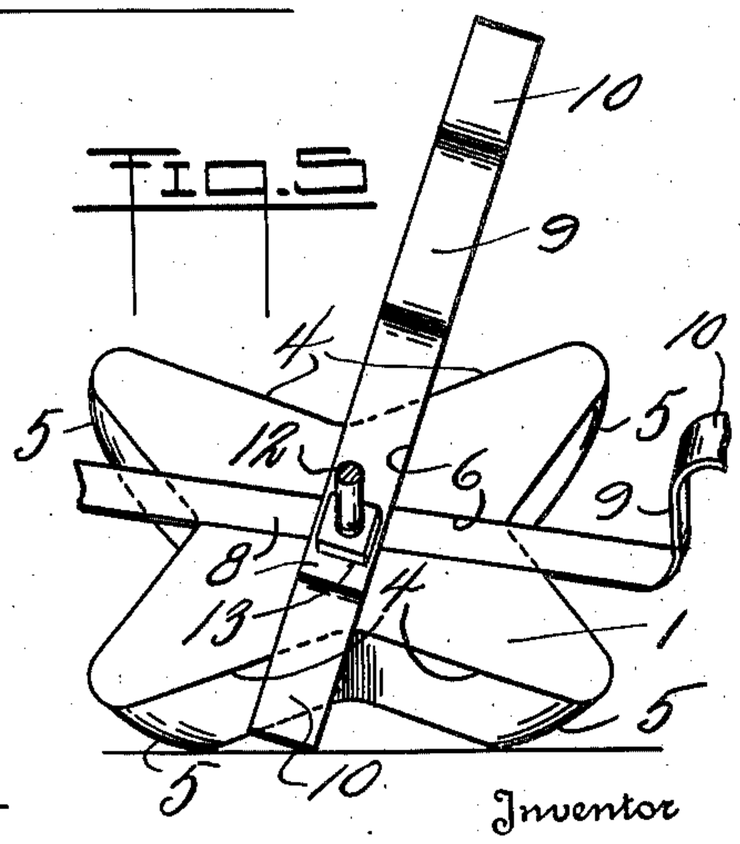


FIG. 5



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Patented July 12, 1938 2,123,420

UNITED STATES PATENT OFFICE

2,123,420

SELF-RIGHTING SUPPORT

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Application March 8, 1937, Serial No. 129,664

4 Claims. (Cl. 248—194)

This invention relates to portable bases or mountings.

This invention has utility when incorporated in gravity-resisting rocking standards as for traffic guides.

Referring to the drawing:

Fig. 1 is a side elevation of an embodiment of the invention as a warning signal showing in dotted lines orienting therefrom;

Fig. 2 is a plan view of the base of Fig. 1;

Fig. 3 is a section on the line III—III, Fig. 2;

Fig. 4 shows an embodiment of the invention as a base for a flare;

Fig. 5 is a fragmentary perspective view of the device in a partially tilted position; and

Fig. 6 is a view of the knock down cluster for the device.

Iron casting 1 is shown with flat base 2 having central countersink 3 from such under side. Radiating from this central mass of the casting is a plurality of arms 4 having under side 5 upwardly curved or tapering as a contributing factor toward self-righting. This casting 1 across the top has diverging seats 6 intersecting at central opening 7. In these seats 6 are mounted fender arms having central flat portions 8 and riser portions 9 to terminal offsets 10. These flat portions 8 intersect and have central openings 11, through which may extend central stem 12 having collar 13, and therebelow threaded portion 14, with which may engage wing nut 15 in effecting detachable clamp assembly of these major fender arms with the base and its minor arms 4.

In the preferred set-up herein, the seats 6 in their extent from the central opening 7 locate the arm termini 10 in unsymmetrical relation as to the arms 4, thereby promoting tendency, when a terminus of an arm 10 is oriented down, to have the counterweight of the mass shift to one side therefrom instead of being balanced thereabout. This is an effective unbalanced design insuring such rolling away from an arm 10 to an arm 4 with thereby promotion of further rolling toward self-righted position to rest on the bottom 2 of the base.

The center of gravity is normally in the base 1 for self-righting of standard 12 in carrying flag or pennant 16. The showing herein is of a collapsible small-space-taking device adapted to be carried by trucks and busses. It will take but little space, may be quickly assembled, and can be positioned as desired along a highway or in spaced relation from the object to be protected, or as might be special warning say for painting a highway, patching, rupture, or some hazard even as to wash-out or opening in ice as a warning to skaters. The passing traffic or heavy gust of wind may have a tendency to overcome the mass, but at once such is past, even though there be a tendency to rock so far as down position for the standard, there is at once a resetting back to the upright.

In this tool, with standard 12 removed, the riser portions 9 may provide a central seat in which may be located receptacle 17 having burner 18 to operate as a flare signal for night use, while the flag 16 may be effective in the daytime or as visible.

What is claimed and it is desired to secure by United States Letters Patent is:

1. A tiltable base, and fending arms upward from the base providing a seat adapted approximately centrally intermediate said arms to support an object in upstanding position of the base, said fending arms on base tilting providing fulcra for base return against overthrow of the object.

2. A tiltable base having minor radially extending arms adjacent and parallel to the plane of rest of the base, detachable major radially extending fending arms upward from said base minor arms, said base providing a seat adapted centrally intermediate said arms to support an object in upstanding position, said fending arms being adapted to coact as fulcra for base return to the plane of rest.

3. A knock down pack of a self-righting standard device embodying a radiating-arm-carrying base, a plurality of attachable radiating fending arms mounting the base in pairs upwardly from the plane of rest of the base providing in annular series fulcra in unsymmetrical radial relation and promoting self-righting return of the base, and assembly means for the fending arms in providing seat means for an object to be supported approximately concentrically of the base.

4. A tiltable multiple arm metal base providing a seat approximately centrally thereof, the arms of said base having greater extent radially away from the bottom of the base, there being diverging seats on the base, terminally offset U-shaped fending arms on said diverging seats upwardly from the plane of rest of the base, and a stem clamping said fending arms to the base at the central seat, said stem being adapted to extend upward to provide a standard for a traffic signal, said fending arms being in annular series in different planes approximately parallel to the base and in pairs in position of unbalance therebetween as well as unbalance by the base for tilting on the base toward righting position.

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