Feb. 18, 1930. D. DEVINE, JR 1,747,352

PLATFORM

Filed Aug. 26, 1925

Fig. 1.

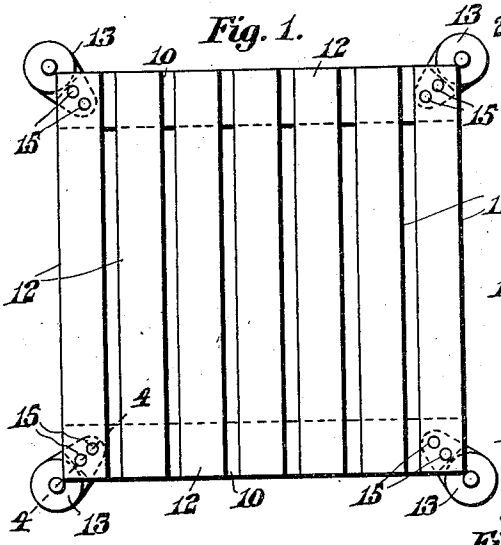


Fig. 2.

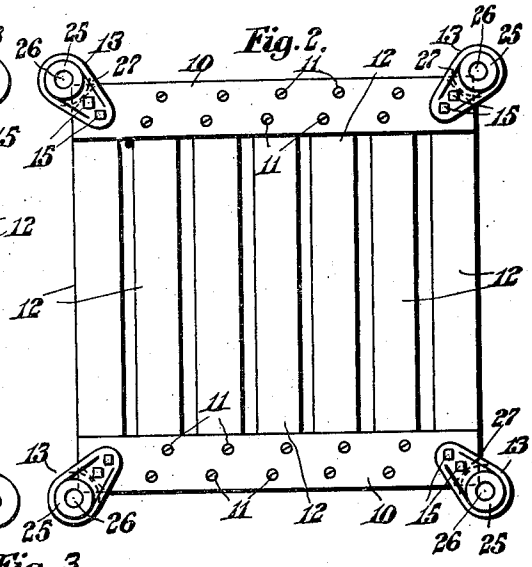


Fig. 3.

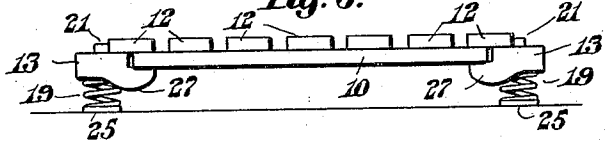


Fig. 4.

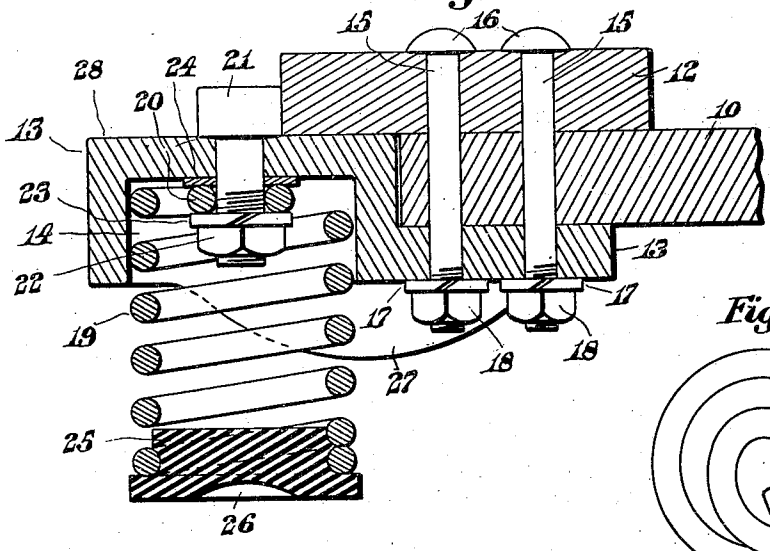
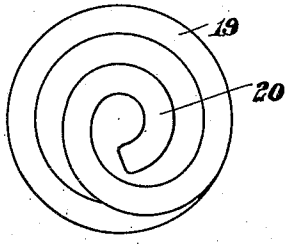


Fig. 5.



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UNITED STATES PATENT OFFICE

DENNIS DEVINE, JR., OF NEW LONDON, CONNECTICUT

PLATFORM

Application filed August 26, 1925. Serial No. 52,568.

This invention relates to movable platforms and has for its object the production of a device of this character which will be particularly adapted for use of traffic officers and other persons obliged to stand for many hours in one spot.

The invention consists primarily of a platform provided with a plurality of yielding supporting members permanently secured to the bottom of said platform, the lower ends of said supporting members preferably having secured thereto insulating disks adapted to grip the ground or other surface upon which the platform rests.

The invention further consists of certain novel features of construction and arrangement of parts which will be understood readily by reference to the description of the drawings and to the claims to be hereinafter given.

For the purpose of illustrating the invention, one preferred form thereof is illustrated in the drawings, this form having been found to give satisfactory and reliable results although it is to be understood that the various instrumentalities of which the invention consists can be variously arranged and organized and the invention is not limited to the precise arrangement and organization of these instrumentalities as herein shown and described except as required by the scope of the appended claims.

Of the drawings:

Figure 1 represents a plan of a platform embodying the principles of the present invention.

Figure 2 represents an inverted plan of the same.

Figure 3 represents a side elevation of the same.

Figure 4 represents a vertical section on line 4, 4 on Fig. 1 drawn to an enlarged scale, and

Figure 5 represents a plan of one of the yielding supporting members.

Similar characters indicate like parts throughout the several figures of the drawings.

In the drawings, 10, 10 are two cleats having secured to the upper faces thereof by screws 11, 11 a plurality of boards 12 spaced apart and forming a platform upon which a person may stand.

At each corner of the platform is secured a metal member 13 extending diagonally from each corner beyond said platform, the outer end of said member being provided with a socket 14 in its under face.

The member 13 is secured to the platform by two bolts 15 which extend through the cleats 10 and the outermost board 12, thereby retaining the platform rectangular and giving great rigidity thereto.

Each bolt 15 is provided at its upper end with a head 16 and at its lower end with a split washer 17 and a clamp nut 18 prevented from rotation by said washer 17.

Each socket 14 has disposed therein the upper end of a helical spring 19 having at its upper end a loop 20 of smaller diameter than the remainder of said spring.

A bolt 21 extending through the member 13 also extends through this loop 20 and has threaded to its lower end a clamp nut 22 between which and said loop is a split washer 23 while between the loop and the inner end of the socket is a washer 24.

The lower end of the spring 19 has secured therein a disk 25 of insulating materal such as rubber, the lower face of which is preferably cupped out as indicated at 26, see Fig. 4.

The disks 25 rest upon the pavement or other surface and become compressed when a person stands upon the platform, thereby causing these disks to obtain a firm grip upon the pavement sufficient to prevent lateral displacement of the platform.

The depression 26 in the under face of each disk 25 acts as a vacuum cup when the disk 25 is compressed, thereby greatly increasing the gripping of the disks upon the pavement.

By having the upper end of the springs 19 disposed in the sockets 14, all lateral play of these springs is effectually prevented while permitting said springs to yield under the weight upon the platform.

These springs 19 are of sufficient strength to support considerable weight and yet will yield to some extent when a person mounted upon the platform moves about.

By positioning the springs in members secured to the corners of the platform at points beyond the edges of said platform, it is impossible for the platform to tilt and upset the person mounted thereon.

As a consequence of this yielding of the platform under the weight of a person supported thereon, it will be found more restful to stand upon than upon the hard pavement or floor.

Moreover, owing to the use of the insulating disks 25 the cold from the pavement is not transmitted to the platform.

The entire platform is limited in size and weight so that it is portable and may be carried under the arm of a person to the point where its use is desired.

Each member 13 is provided with strengthening ribs 27 as indicated in Figures 2 and 4, which makes this member very rigid and the upper face 28 of each member 13 bears against the under face of a board 12, thereby forming with the bolts 15 a very rigid connection between said member and the platform.

It is believed that the operation and many advantages of the invention will be fully apparent without further description.

Having thus described my invention, I claim:

1. A portable spring platform consisting of a plurality of boards superimposed upon and secured at their ends to parallel transverse cleats and having a plurality of projecting members secured to and extending diagonally from the corners thereof, each projecting member having a socket formed in the under face of its outer end, the center of said socket being beyond the edge of said platform, a helical supporting spring having its upper end secured in each socket and forming a yielding support the lower end of which is movable vertically and laterally, and a rubber disk secured to the lower end of said spring and movable therewith.

2. A portable spring platform having a downwardly extending bolt closely adjacent each corner thereof; a helical spring having a loop at its upper end surrounding each bolt and its lower end freely movable; a clamping nut threaded to the lower end of said bolt; and a split washer between the nut and loop.

Signed by me at 746 Old South Bldg., Boston, Massachusetts, this 25th day of August, 1925.

DENNIS DEVINE, JR.