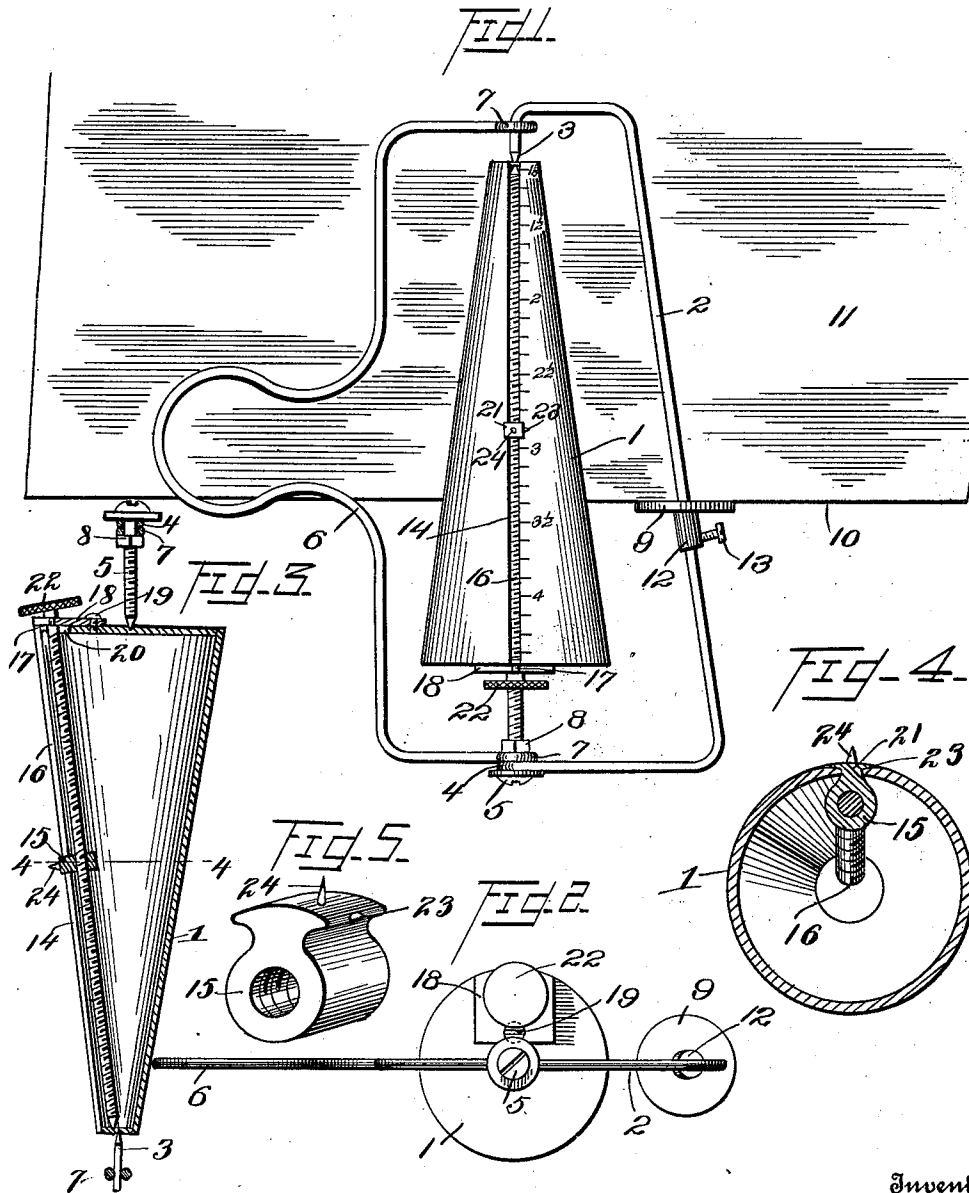


W. D. ADAMS.
MARKING AND SPACING DEVICE.
APPLICATION FILED OCT. 1, 1910.

1,000,659.

Patented Aug. 15, 1911.



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UNITED STATES PATENT OFFICE.

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MARKING AND SPACING DEVICE.

1,000,659.

Specification of Letters Patent. Patented Aug. 15, 1911.

Application filed October 1, 1910. Serial No. 584,829.

To all whom it may concern:

Be it known that I, WILSON D. ADAMS, a citizen of the United States, residing at Pleasantville, in the county of Atlantic and State of New Jersey, have invented certain new and useful Improvements in Marking and Spacing Devices, of which the following is a specification.

My invention relates to improvements in marking and spacing devices, the object of the invention being to provide a tool of this character, more particularly designed for use by carpenters in marking wood work, so as to prick the wood at exactly equi-distant points, and any desired distance apart, and perform the operation quickly and with uniform relation to a straight edge.

A further object is to provide an instrument of this character, which may be quickly and accurately adjusted to make the marks or pricks any desired distance apart, and any desired distance from a straight edge.

A further object is to provide an instrument of this character, of simple and inexpensive construction, but strong and durable in use.

With these and other objects in view, the invention consists in certain novel features of construction, and combinations, and arrangements of parts as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1, is a plan view illustrating my improvements. Fig. 2, is an end view. Fig. 3, is a view in longitudinal section through the cone. Fig. 4, is an enlarged view in cross section of Fig. 3, the section being taken through the marker. Fig. 5, is a detail perspective view of the marker.

1 represents a hollow truncated cone, which is preferably of sheet metal, but may be made of various other material. This cone is supported in a wire frame 2, one end of the wire being bent and sharpened as illustrated at 3, engaging in a slight recess in the smaller end of the cone, forming a thrust bearing. The other end of the wire is bent forming an eye 4, through which a screw 5 projects, the inner end of said screw being sharpened and having a thrust bearing in the center of the larger end of the cone.

6 is a wire handle, the ends of which are bent forming eyes 7 to receive the end 3 of frame 2 and screw 5 respectively, a nut 8 located on the screw 5 clamps the eyes 4

and 7 between the nut and the head of screw 5. The intermediate portion of this handle may be formed in any shape to afford a ready grip.

9 represents a guide, which is adapted to run against the straight edge 10 of the work illustrated at 11, and this guide 9 has an integral sleeve 12, which is adjustably held on frame 2 by a set screw 13, permitting the guide to be adjusted to the position desired.

Cone 1 is made with a longitudinal slot 14, in which the marker 15 is mounted to slide, said marker within the cone being of general cylindrical form, and internally screw threaded to engage the threads of an adjusting screw 16. The screw 16 extends throughout the length of the cone, has a thrust bearing at its inner end in the smaller end of the cone, and at its outer end is provided with an annular groove 17, into which the notched end of a plate 18 projects. The plate 18 is secured by screw 19 to the larger end of cone 1, and normally closes an opening 20 in said larger end, sufficiently large to allow the marker 15 to enter when assembling the parts. The marker 15 has an enlarged head 21, the ends of which overlie the outer face of the cone, so that the marker is held firmly in the slot against wobbling, but is permitted a free longitudinal adjustment by the screw 16, a milled finger hold 22 being provided on the outer free end of the screw for this adjustment.

A pointer 23 is provided on the marker to register with the scale along one edge of the slot 14, said scale recording the circumferential dimensions of the cone, so that a glance at the scale indicates just where the marker must be placed in order to prick the work at the desired distances apart. A spur or sharp lug 24 is provided on the outer face of the marker, to make such marks in the work, and it will be noted particularly by reference to Fig. 4, that the head 21 of the marker, and the walls of the slot and surface of the cone are shaped as to prevent any jarring or bouncing movement of the cone, when the latter is rolled over the work.

In operating, the marker 15 is adjusted to the desired position on the cone with relation to the guide 9, and the operator grasps the handle 6 with the guide 9 against the straight edge 10 of the work, and rolls the cone along the work, said marker pricking the work at the desired distance apart. It will, of course, be understood, that the

nearer the marker is to the smaller end of the cone, the shorter will be the distance between the pricks, and as the marker approaches the larger end of the cone, the distances between the pricks will be correspondingly increased.

Various slight changes might be made in the general form and arrangements of parts described without departing from my invention, and hence I do not limit myself to the precise details set forth but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:—

1. An instrument of the character described, comprising a truncated cone, means affording rotary mounting for said cone, and a marker on said cone adjustable longitudinally of the cone, substantially as described.

2. An instrument of the character described, comprising a truncated cone, a marker movable longitudinally of the cone, a screw-threaded rod constructed to move said marker, and a frame affording rotary mounting for said cone, substantially as described.

3. An instrument of the character described, comprising a truncated cone having a longitudinal slot therein, a screw-threaded rod mounted longitudinally in the cone, a marker having screw-threads engaging the threads of the rod and projecting through the slot in the cone, and rotary mounting for said cone, substantially as described.

4. An instrument of the character described, comprising a truncated cone, a wire frame affording rotary mounting for said cone and a guide on said frame, of a marker on said cone, and means for moving the marker longitudinally of the cone, substantially as described.

5. In an instrument of the character described, the combination with a truncated cone, a frame affording rotary mounting for said cone, and a guide on said frame, of a marker movable longitudinally of said cone, a pointer on said marker, a scale on said cone recording circumferential measurements of the cone, and means for moving the marker longitudinally of the cone, substantially as described.

6. In an instrument of the character de-

scribed, the combination with a longitudinally slotted cone, a wire frame affording rotary mounting for said cone, and a guide on said frame, of a marker guided in said slot in the cone, a screw supported longitudinally in the cone, and engaging screw threads in the marker, and a handle connected to said frame, substantially as described.

7. In an instrument of the character described, the combination with a longitudinally slotted cone, a wire frame affording rotary mounting for said cone, and a guide on said frame, of a marker guided in said slot in the cone, a screw supported longitudinally in the cone, and engaging screw threads in the marker, said cone having an opening in its larger end to receive said marker, a plate secured over said opening, said screw having an annular groove therein, and a notched end on said plate projecting into said groove, substantially as described.

8. In an instrument of the character described, the combination with a longitudinally slotted cone, a wire frame affording rotary mounting for said cone, and a guide on said frame, of a marker guided in said slot in the cone, a screw supported longitudinally in the cone, and engaging screw threads in the marker, said cone having an opening in its larger end to receive said marker, a plate secured over said opening, said screw having an annular groove therein, a notched end on said plate projecting into said groove, and a wire handle pivotally connected at its ends to said frame, substantially as described.

9. In an instrument of the character described, the combination with a truncated cone, of a wire frame having one end bent and engaging the center of the smaller end of the cone, an eye formed in the other end of the wire frame, a screw projecting through said eye and engaging the center of the larger end of the cone, a guide on said frame, and a marker adjustable longitudinally of the cone, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILSON D. ADAMS.

Witnesses:

FLORENCE SAVAGE,
JOHN W. HUGHES.