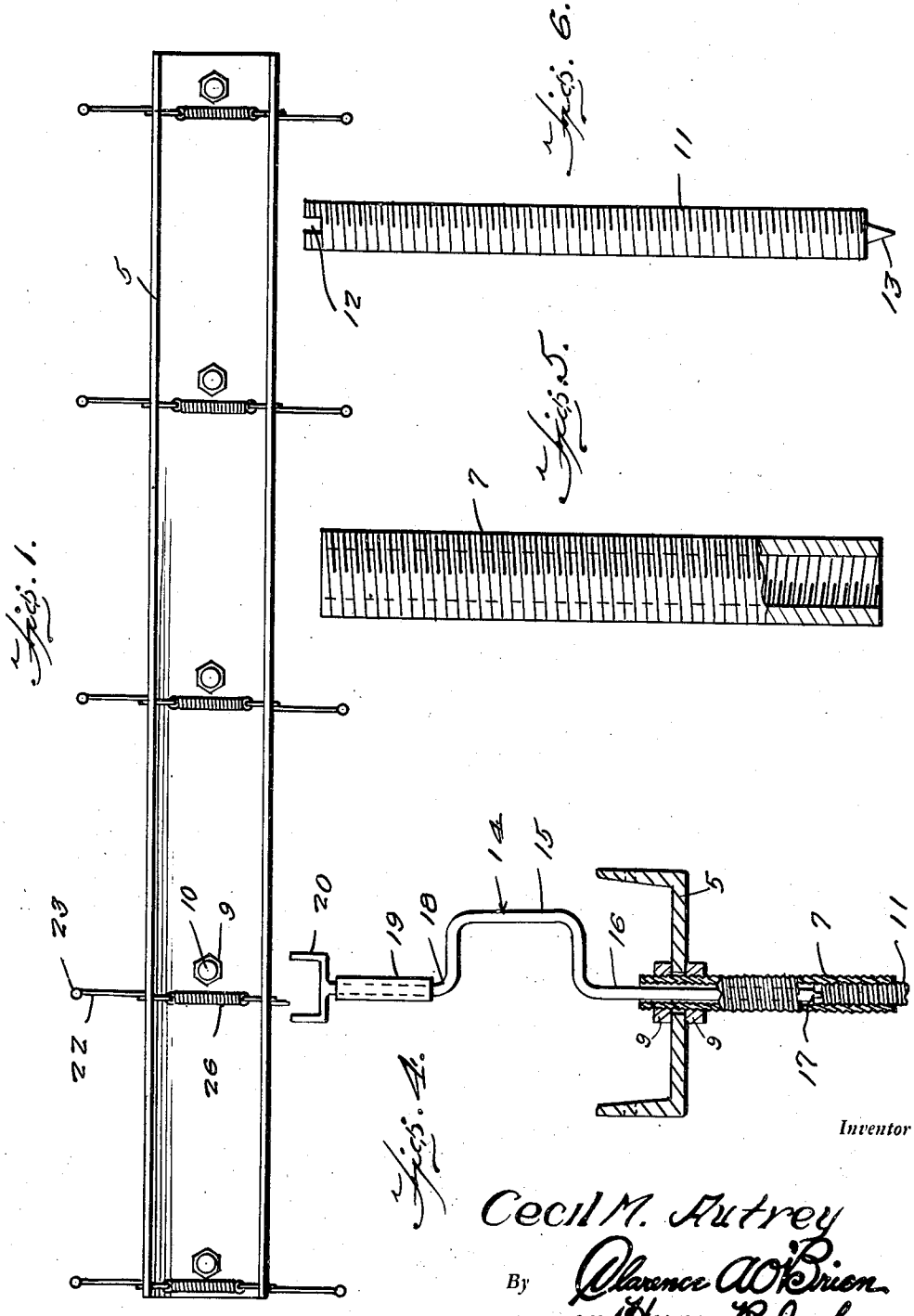
April 10, 1945. C. M. AUTREY 2,373,284

ADJUSTABLE SCREED

Filed Sept. 21, 1943 2 Sheets-Sheet 1



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ADJUSTABLE SCREED

Filed Sept. 21, 1943 2 Sheets-Sheet 2

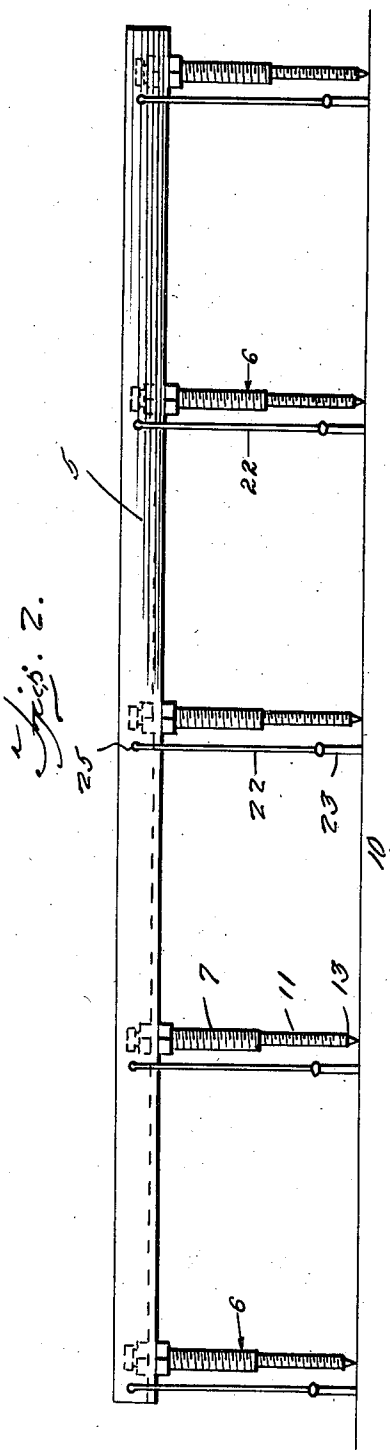


Fig. 2.

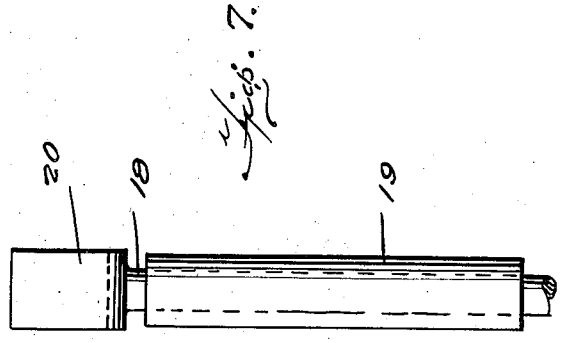


Fig. 7.

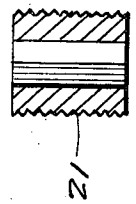


Fig. 8.

Fig. 3.

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2,373,284

UNITED STATES PATENT OFFICE

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ADJUSTABLE SCREED

Cecil M. Autrey, Newton, Tex., assignor of fifty per cent to James J. Armstrong, Schenectady, N. Y.

Application September 21, 1943, Serial No. 503,297

1 Claim. (Cl. 72—128)

This invention relates to new and useful improvements in screeds and more particularly to an adjustable screed adapted to maintain a proper grade elevation while rodding or leveling fresh concrete.

An important object of the invention is to provide an adjustable screed which can be conveniently adjusted to accurate refinements.

Another important object of the invention is to provide an adjustable screed wherein the parts are protected from concrete and other material.

Other objects and advantages of the invention will become apparent to the reader of the following description.

In the drawings:

Figure 1 is a top plan view of the structure.

Figure 2 is a side elevational view.

Figure 3 is a fragmentary vertical sectional view.

Figure 4 is a cross sectional view showing one of the legs in the act of being adjusted by a special tool.

Figure 5 is a side elevational view with a portion broken away showing one of the threaded tubes.

Figure 6 is a side elevational view of one of the threaded legs.

Figure 7 is a fragmentary side elevational view showing the upper portion of the special tool.

Figure 8 is a vertical sectional view through the jamb plug.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 denotes an elongated channeled member, either the top or bottom of which can be used as a grade. A plurality of leg structures 6 are disposed through this channeled member 5 and each leg assembly consists of an internally and externally threaded tube 7 having its upper portion disposed through an opening 8 in the bottom of the channeled member 5, and the jamb nuts 9 are provided on this portion of the tube 7, one above and one below the channeled member 5 so as to grip the same and hold the threaded tube 7 in proper adjusted position with respect to the channeled member 5. An internally threaded cap 10 can be provided for the upper end of the tube 7 to prevent concrete from entering the tube.

Numeral 11 denotes an elongated threaded leg member having a key receiving recess 12 in the upper end thereof. The lower end of the leg is formed with a spur 13.

Numeral 14 generally refers to a tool for adjusting the legs 11 and this tool consists of a crank 15 having a shank 16 provided at its lower end with a key 17 to engage in the recess 12 of the corresponding leg 11. The tool 14 has an upstanding portion 18 around which a hand grip sleeve 19 is disposed and the upper end of the upstanding portion 18 has a U-shaped formation 20. The tool is disposed into the tube 7 in the manner shown in Figure 4 for adjusting the leg 11, and after the leg has been properly adjusted, a plug 21 is screwed down into the tube 7 to jamb against the upper end of the leg 11 to prevent self-adjusting thereof. After this, the cap 10 can be disposed in place.

For holding the structure in place, tie wires 22 extend from anchoring members 23 and having their upper end portions passed through openings 25 in the side walls of the channeled member 5 and connected to ends of tensioning springs 26 extending transversely of the channeled member.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:

A screed of the character described comprising an elongated channeled member provided with adjustable supporting legs and tie means for the elongated member, said tie means consisting of opposed metal strands passing through openings at opposite sides of the channeled member and extending at a downward incline from sides of the elongated member, anchors for lower ends of said strands and tensioning springs extending transversely of the elongated member and having their ends connected with upper ends of the strands.

CECIL M. AUTREY.