

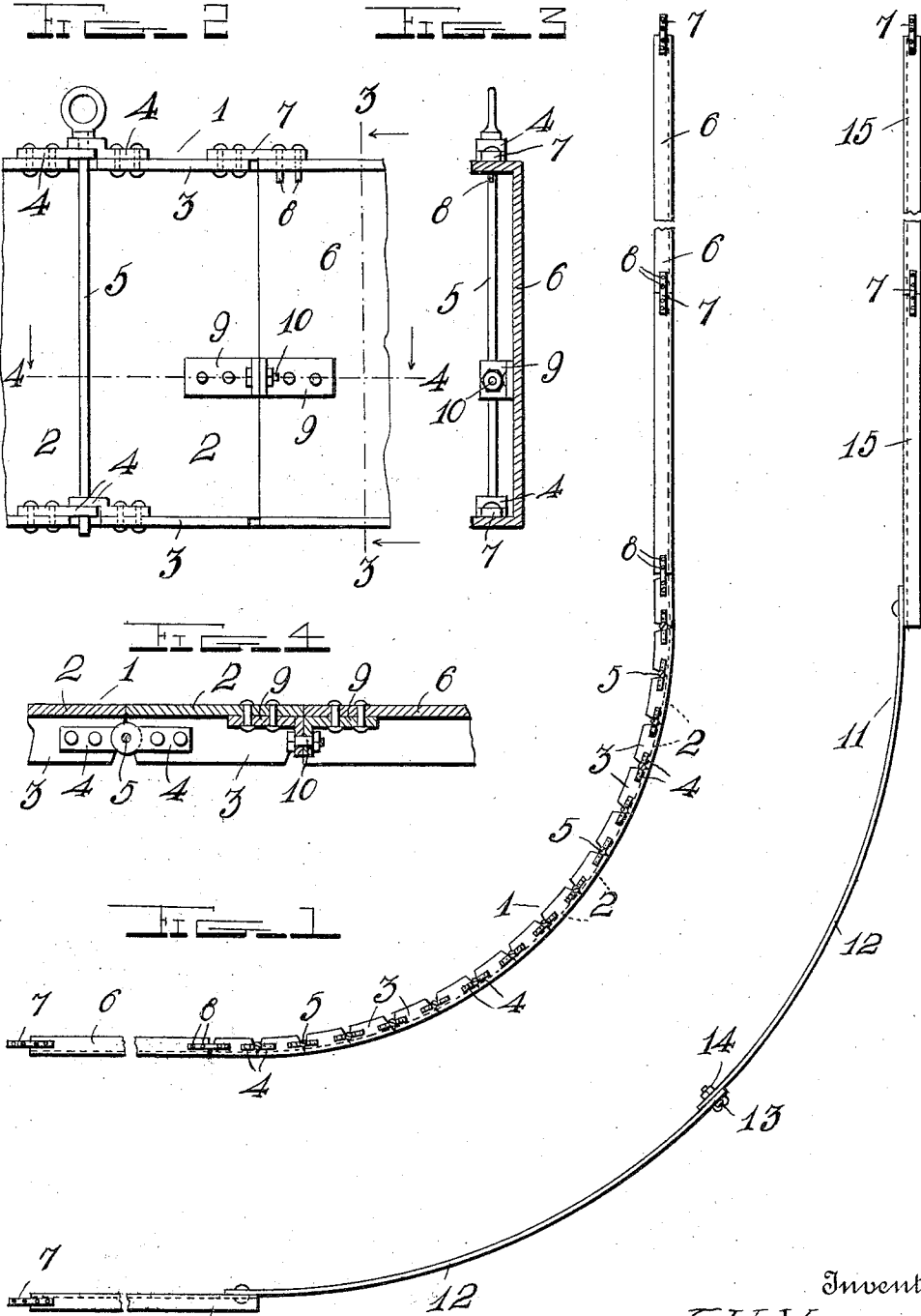
J. H. YOUNG.
CONCRETE FORM.

APPLICATION FILED MAR. 14, 1910.

965,979.

Patented Aug. 2, 1910.

28 SHEETS—SHEET 1.



Witnesses
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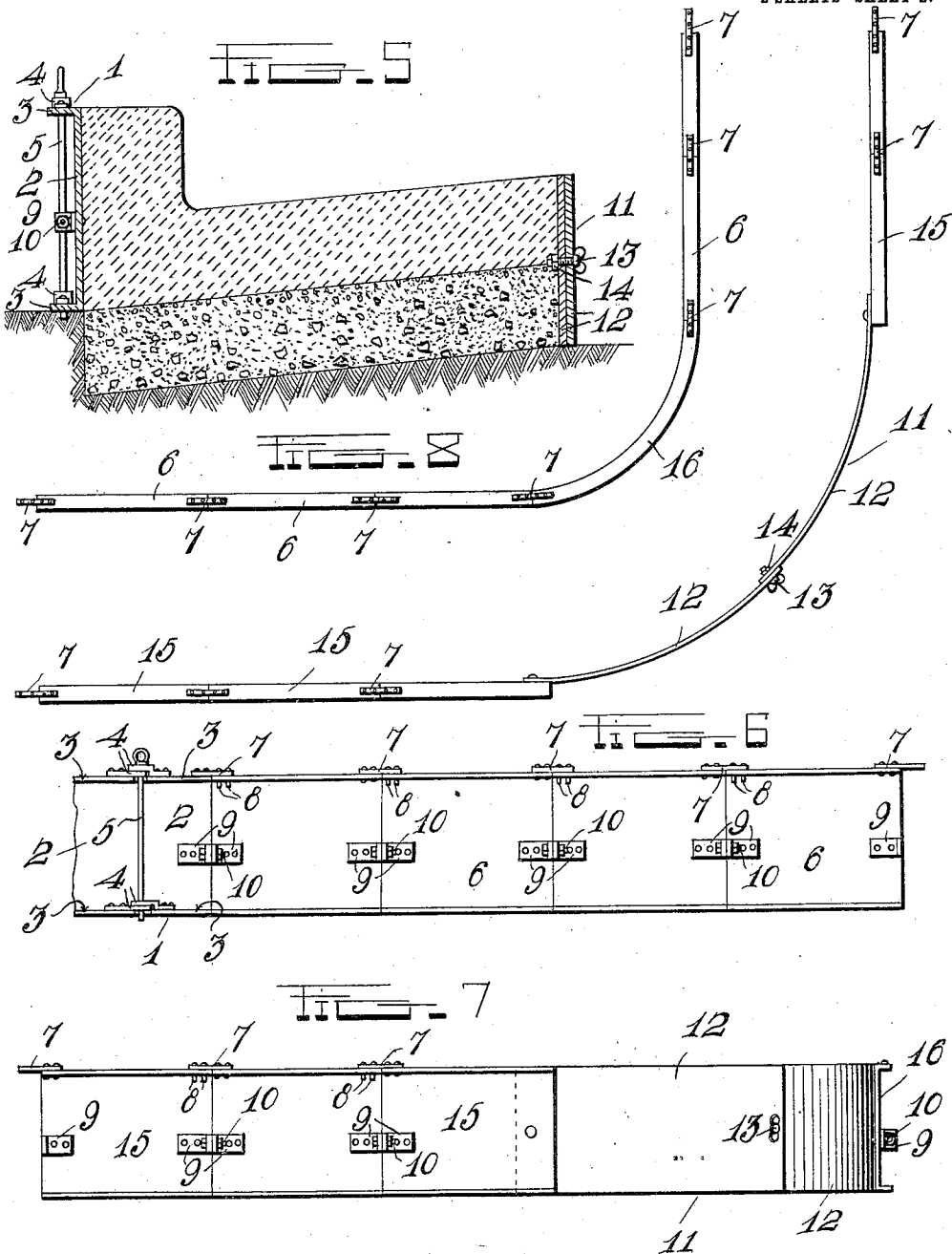
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2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH H. YOUNG, OF SHAWNEE, OKLAHOMA.

CONCRETE FORM.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH H. YOUNG, a citizen of the United States, residing at Shawnee, in the county of Pottawattomie and State of Oklahoma, have invented certain new and useful Improvements in Concrete Forms; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in adjustable concrete forms.

One object of the invention is to provide an improved construction and arrangement of forms adapted to be adjusted to any desired curvature or radius for forming round corners on concrete curbing.

Another object is to provide an improved means for detachably connecting the ends of the form sections together.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a plan view of a form constructed in accordance with the invention; Fig. 2 is a side view of a portion of the inner side of the same; Fig. 3 is a similar view of the outer side; Fig. 4 is a cross sectional view on the line 4-4 of Fig. 1; Fig. 5 is an enlarged fragmentary plan view partly in section of a portion of the inner side of the form; Fig. 6 is an enlarged fragmentary side view of the same; Fig. 7 is a side elevation of the form shown in Fig. 8. Fig. 8 is a plan view of a modified form of the invention.

Referring more particularly to the drawings, 1 denotes the inner side of the form, said side comprising a curved portion formed of a series of short plates or sections 2 on the upper and lower edges of which are formed short right angular flanges 3, the ends of which are formed on an angle to permit the radial adjustment of the plates. The flanges of the plates or sections have riveted or otherwise secured to their opposite ends hinge members or plates 4 one of which is off-set to overlap the other, and said overlapping ends of the hinge members or plates 4 are provided with alined apertures through which is inserted a pivot pin or rod 5 whereby the sections or plates 1 are

pivottally connected together and the radial adjustment thereof thus permitted to provide the desired curvature for the inner side of the forms.

To the outer plates or sections of the inner side of the form are secured the adjacent ends of the straight sections 6 of said side, said sections comprising plates having flanged upper and lower edges corresponding with the flanges on the upper and lower edges of the plates or sections 2. The upper flanges of the plates or sections 6 are connected to the adjacent upper flanges of the outer sections 2 by connecting plates 7, one end of which is riveted to the flanges of the outer sections 2, while the opposite ends of the connecting plates are secured to the adjacent upper flanges on the sections 6 by means of pins 8 which are passed through alined apertures formed in the end of the connecting plate and the adjacent flange of the sections 6.

The sections 6 are further secured to the ends of the plates or sections 2 by angle iron plates or brackets 9, which are riveted to the outer sides of the adjacent ends of the sections 2 and 6 a suitable distance from the lower edges of said sections and the projecting portions of the angle iron plates 9 are bolted together by a fastening bolt 10, as shown. The adjoining straight sections members 6 are secured together by connecting plates 7 and angle iron brackets 9 in the same manner as described in connection with the fastening between the ends of the outer sections or plates 2 and the engaging ends of the straight sections 6.

The outer side 11 of the form comprises a curved portion consisting of curved sheet metal plates 12, the inner ends of which are adapted to overlap and are provided with alined apertures through which is inserted a fastening device, which is here shown and is preferably in the form of a thumb screw 13 which is inserted through the apertures in the overlapping ends of the plates 12 and is screwed into engagement with a clamping nut 14, whereby said overlapping ends are securely clamped together. The outer ends of the sections 12 are riveted or otherwise secured to the straight sections 15 of the outer side of the form, said sections 15 having flanged upper and lower edges and are similar in construction to the flanged sections 6 forming the straight portion of the inner side of the form.

In Fig. 7 of the drawings is shown a slightly modified form of the curved section of the inner side of the form, said section being shown in this instance as in the form of a single flanged plate 16 of the desired radius or curvature and having a construction corresponding with the flanged straight sections of the form. The ends of the sections 16 are secured to the adjoining straight sections of the form by means of connecting plates and pins and angle iron brackets constructed and arranged in the same manner as described in connection with the first figures of the drawing.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claims.

Having thus described my invention, what a claim is:—

1. In a form of the character described, an inner side comprising a curved portion formed of a series of short sections pivotally connected together, a series of straight sections rigidly secured together and an outer side comprising a curved portion formed of adjustably connected sheet metal

sections and straight sections secured to the outer ends of said curved sheet metal sections.

2. In a form of the character described, an inner side comprising a curved portion formed of a series of plates having flanged upper and lower edges, hinged members secured to the flanges on the upper and lower edges of said plates, pivot pins engaged with said hinged member, to pivotally connect said sections together to form the desired radius or curvature, a series of straight sections comprising plates having flanged upper and lower edges, connecting plates secured to the upper flanges of said edges, angle iron brackets secured to the outer sides of said plates adjacent to their opposite ends, fastening bolts arranged through said brackets, an outer side comprising a curved portion formed of curved sheet metal plates, means to adjustably secure the inner ends of said plates together to form the desired curvature or radius for the outer side of the form, and a series of straight sections comprising plates having flanged upper and lower edges, and means to secure the adjoining ends of said straight sections together.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSEPH H. YOUNG.

Witnesses:

E. C. STANARD,
R. L. FLYNN.