

J. F. PECK.
 CULVERT MOLD.
 APPLICATION FILED OCT. 21, 1911.

1,061,491.

Patented May 13, 1913.

2 SHEETS—SHEET 1.

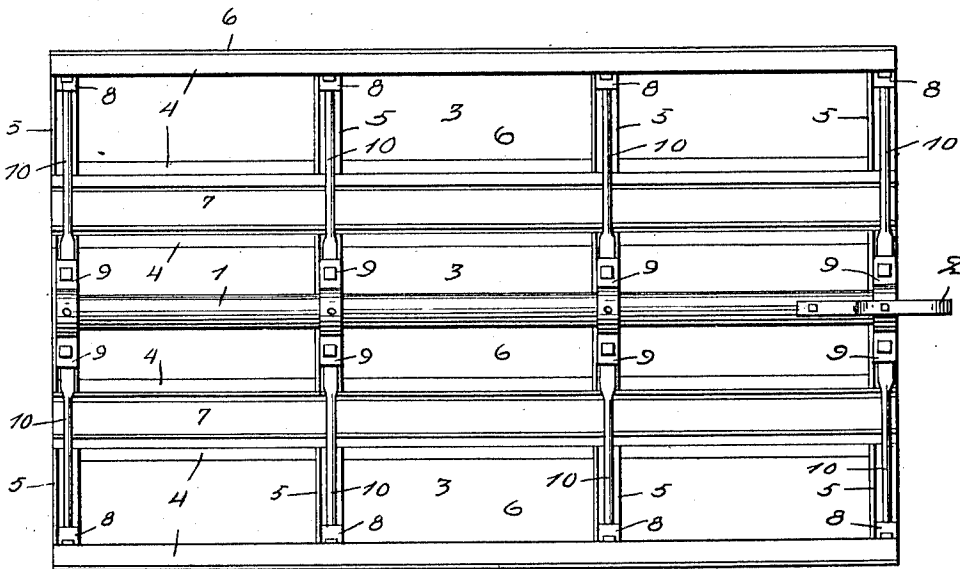
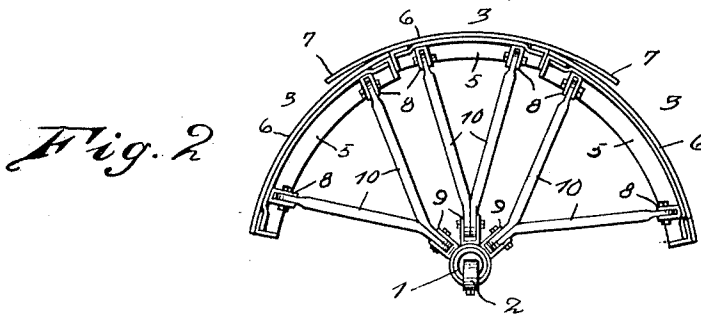
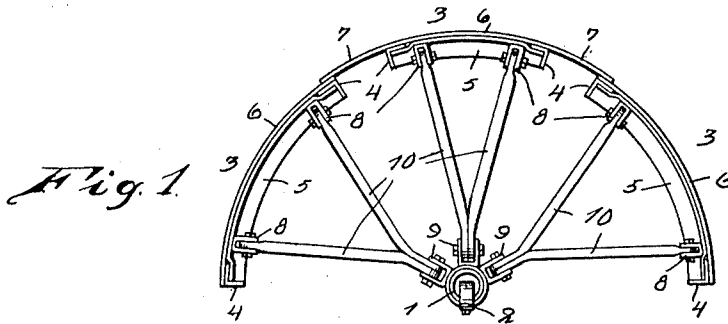


Fig. 3.

Inventor

Witnesses

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2 SHEETS—SHEET 2.

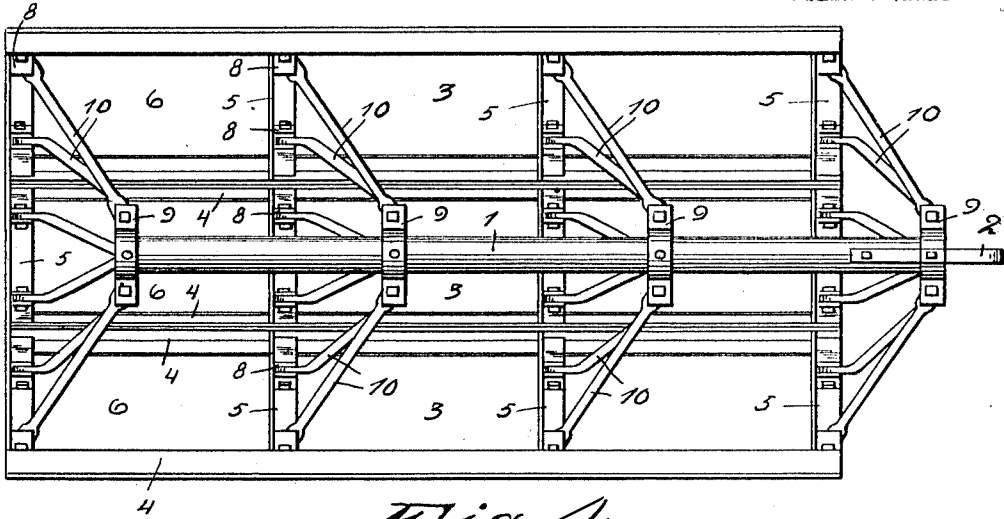


Fig. 4.

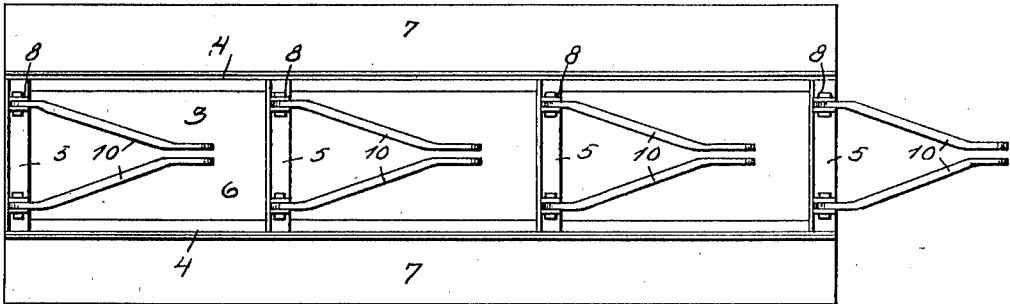


Fig. 5.

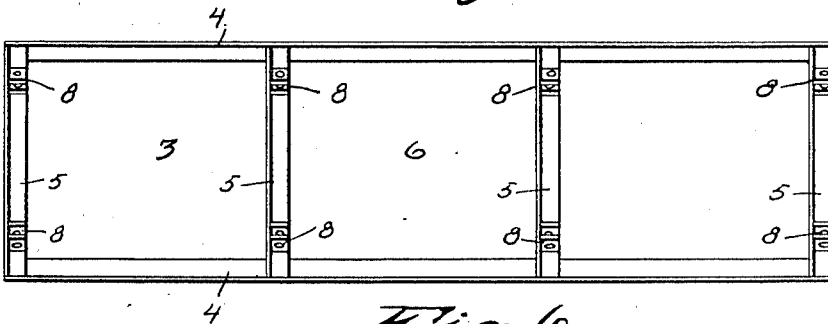


Fig. 6.

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UNITED STATES PATENT OFFICE.

JOHN F. PECK, OF MADISON, SOUTH DAKOTA.

CULVERT-MOLD.

1,061,491.

Specification of Letters Patent.

Patented May 13, 1913.

Application filed October 21, 1911. Serial No. 655,972.

To all whom it may concern:

Be it known that I, JOHN F. PECK, a citizen of the United States, residing at Madison, in the county of Lake and State of South Dakota, have invented certain new and useful Improvements in Culvert-Molds, of which the following is a specification.

My invention relates to molds for building arched culverts, and has for its object the provision of a mold that is simply and substantially constructed, easily operated, and reasonable in cost of manufacture.

My invention will be described hereinafter and illustrated in the accompanying drawings in which—

Figure 1 is an end view of my improved mold in its extended position, Fig. 2, is a similar view in a collapsed position, Fig. 3, a bottom plan view in an extended position, Fig. 4, a similar view collapsed, Fig. 5, a bottom plan view of the middle section dismembered, and Fig. 6, a similar view of one of the side sections.

In the drawings similar reference characters will be used to designate corresponding parts in the several views.

As stated above my improved mold is used to construct arched culverts, and it consists of collapsible, overlapping, segmental sections pivotally secured to a common core rod 1 having a hook 2 on one end to which may be attached pulling means (not shown) for collapsing the mold.

The mold sections consist of frames 3 that are rectangular in plan and constructed of angle bars, 4 indicating the longitudinal bars, and 5 cross-bars, the cross-bars being curved so as to make the frame segmental in cross section. Frames 3 are covered with sheet metal plates 6, the middle frame being narrower than the frames on each side thereof, and the plate 6 secured thereto wider than the frame and extending beyond the side of the middle frame to form aprons 7 that overlap the edges of the plates 6 on the side frames.

8 indicates brackets secured to each cross-bar 5, consisting of U-shaped pieces of metal, and 9 similar brackets secured to core rod 1, there being two brackets on each cross-bar 5, while the brackets on the core rod are one-half of the number on the mold

sections and arranged one for each pair of brackets on the mold frames.

10 indicates rods pivotally secured at one of their ends to brackets 8, and having their other ends reduced in thickness and pivotally secured in brackets 9.

When the mold is in the position shown in Figs. 1 and 3, or with the front or hooked end of core rod 1 under the front edge of the mold, the mold is in position for use. After a culvert arch has been formed on the mold and has set sufficiently to insure it standing alone without support, the mold may be removed by pulling the core rod 1 outwardly by engaging the hook 2. This will cause the mold to assume the position shown in Figs. 2 and 4, the rods 10 by swinging nearer to the core rod 1 cause the frames 3 to close upon one another, this movement being permitted by the overhanging apron 7 on the middle frame plate 6.

Having thus described my invention what I claim is—

In a culvert mold, a collapsible semi-cylindrical shell comprising a plurality of arcuate sections, each of said sections comprising a rectangular angle iron frame, transverse segmental angle iron braces, and a sheet metal covering, the said covering of one of said sections overlapping the edges of the contiguous sections, and the longitudinal bars of the frames of said sections adapted to act as stops to limit the collapsing of the mold; a longitudinally movable core provided with a plurality of collars, U shaped brackets upon each of said collars corresponding in number to the number of arcuate sections; links pivoted in pairs within said brackets, extending divergently toward the shell and pivoted within brackets disposed upon the transverse segmental braces; and means mounted upon said core for attachment with a draft means for moving said core longitudinally to collapse the mold and withdraw it from the molded structure.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

JOHN F. PECK.

Witnesses:

CHAS. B. KENNEDY,
WILLIAM CURTIS.