

995,529.

Patented June 20, 1911.

2 SHEETS—SHEET 1.

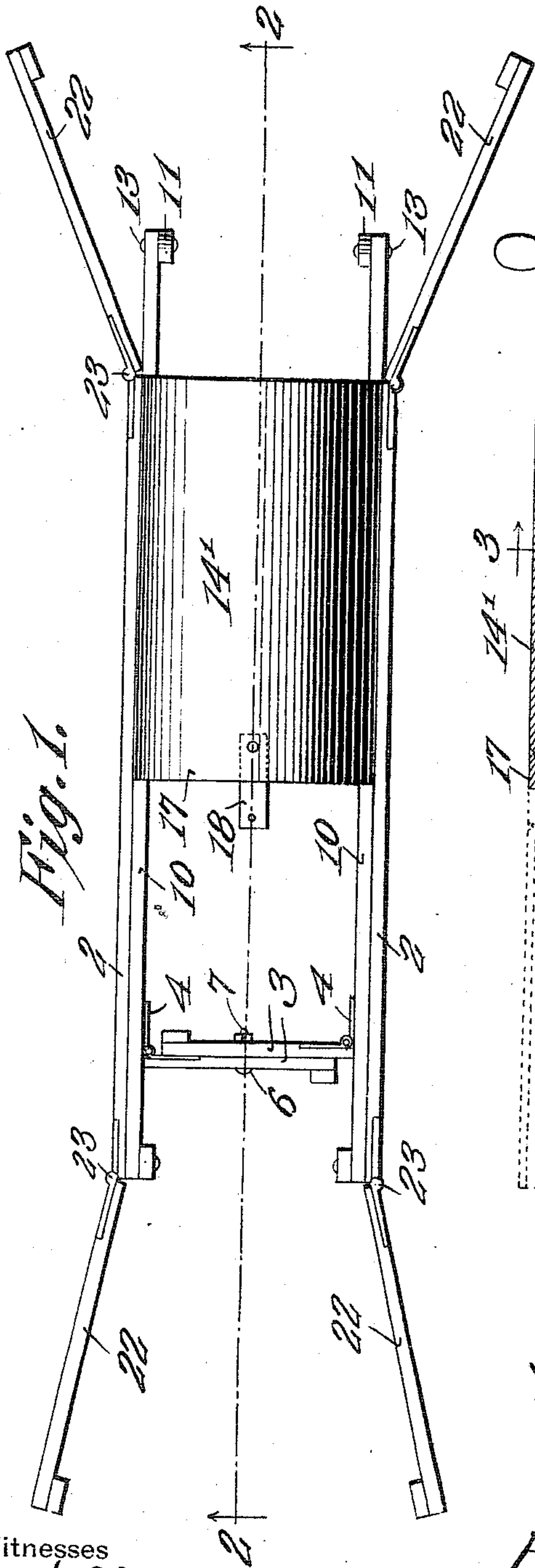


Fig. 1.

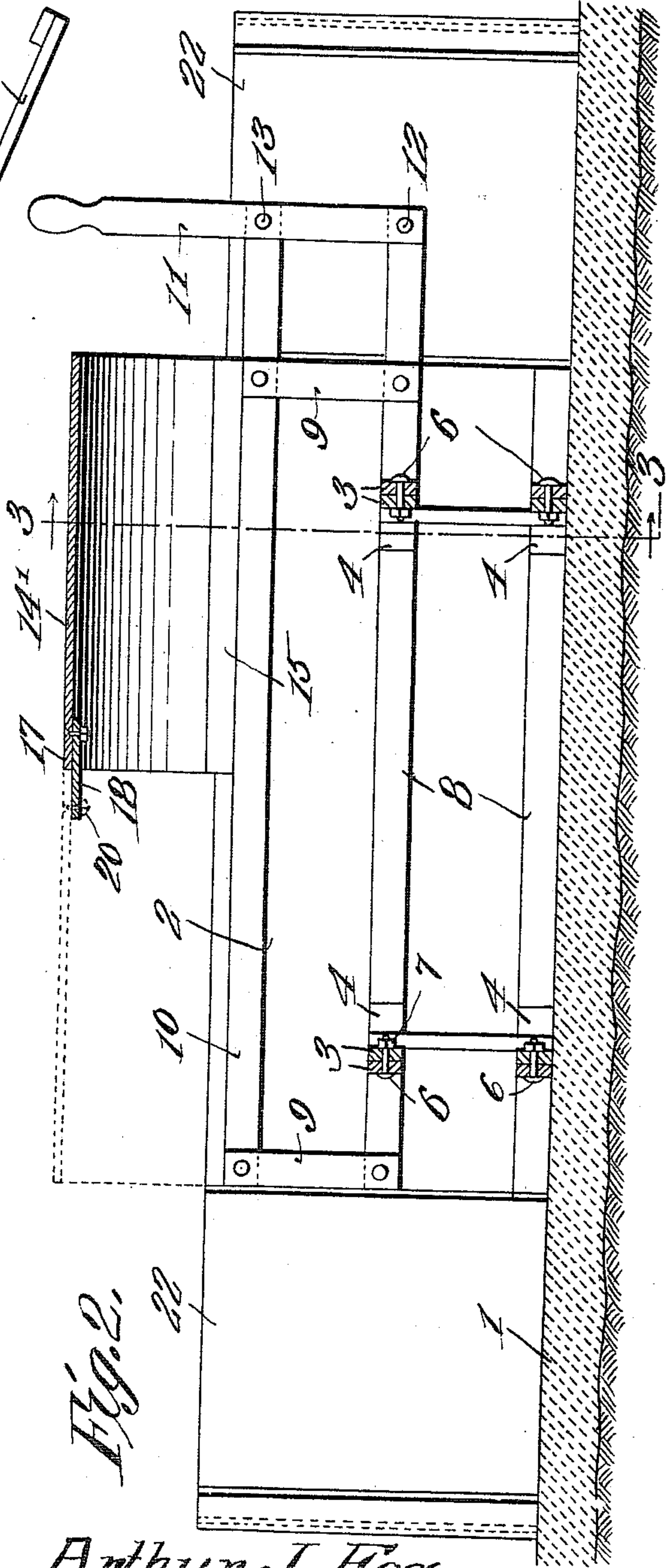


Fig. 2.

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APPLICATION FILED SEPT. 26, 1910.

Patented June 20, 1911.

2 SHEETS-SHEET 2.



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UNITED STATES PATENT OFFICE.

ARTHUR J. FOX, OF ALMONT, MICHIGAN.

CULVERT-MOLD.

995,529.

Specification of Letters Patent. Patented June 20, 1911.

Application filed September 26, 1910. Serial No. 583,828.

To all whom it may concern:

Be it known that I, ARTHUR J. FOX, a citizen of the United States, residing at Almont, in the county of Lapeer and State of Michigan, have invented a new and useful Culvert-Mold, of which the following is a specification.

It is the object of this invention to provide a culvert mold having adjustable elements of novel and improved form, and to provide novel means for altering the relative positions of said elements.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings,—Figure 1 is a top plan, portions of the arch proper being removed; Fig. 2 is a section on the line 2—2 of Fig. 1; Fig. 3 is a section on the line 3—3 of Fig. 2; Fig. 4 is a top plan of the device, all of the arch members being in place; and Fig. 5 is a detail perspective illustrating the manner in which the wings are hingedly and removably connected with the side walls of the mold.

In the drawings, the numeral 1 denotes a sub-structure which is placed in the bottom of the ditch in which the culvert is to be fashioned. Resting upon the sub-structure 1, are side walls 2, connected at their ends by means of hinge members 23, with wings 22, the construction being such that the wings 22 may be swung horizontally, to give a flare to the portals of the culvert. Reinforcing bars 8, extended longitudinally of the mold, are secured to the side walls 2 in spaced relation. By means of hinges 4, spacing members 3 are pivotally united with the upper reinforcing bars 8, there being mating holes 5, in the spacing members 3, adapted to receive bolts 6, carrying nuts 7, the construction, obviously being such that the side walls 2 may be spaced at greater or less distances apart, thereby adjusting the width of the culvert which is to be formed. Links 9 are pivoted at their lower ends, to the upper reinforcing bars 8, the upper ends of the links 9 being pivotally connected with supporting bars 10, extended longitudinally

of the mold. The upper reinforcing bars 8, and the supporting bars 10 protrude at one end, beyond the side walls 2, as clearly shown in Fig. 2. To the protruding ends of the upper reinforcing bars 8, levers 11 are pivoted, as shown at 12, the levers being pivotally connected, intermediate their ends, as shown at 13, with the supporting bars 10, the levers extending upwardly above the side walls 2.

Resting immediately upon the supporting bars 10, are arch members 14', which may be of any desired form. The arch members 14' carry, at their lower edges, reinforcing strips 15, these strips 15 bearing immediately upon the supporting bars 10, as shown in Fig. 3. The reinforcing strips 15 are united by chords 16, the obvious functions of which are to prevent the arch members 14' from spreading. Other arch members 21 are provided, these arch members flaring, so as to rest properly upon the wings 22. To the meeting ends 17 of the arch members, cleats 18 are secured, the cleat which is secured to one arch member, extending beneath the next adjacent arch member, in order to maintain the arch members alined. The cleats 18 are maintained in place by means of bolts 20.

It is to be noted that the upper reinforcing bars 8 serve as mountings for the spacing members 3, and, at the same time, serve as points of attachment for the operating levers 11. Moreover, by reason of the fact that the supporting bars 10 and the upper reinforcing bars 8 protrude at one end, as shown in Fig. 2, beyond the side walls 2, these protruding portions may be employed for alining the wings 22 with the side walls 2. Thus, the culvert at one end, may terminate in wing walls alined with the sides of the culvert, instead of the flaring wing walls, fashioned when the members 22 are disposed in diverging relation, as shown in Fig. 1.

Having thus described the invention, what is claimed is:—

A device of the class described comprising side walls; reinforcing bars secured to the side walls longitudinally thereof; cooperating spacing members carried by the bars; supporting bars disposed above the reinforcing bars; links connecting reinforcing bars and the supporting bars; arch members resting directly upon the supporting bars; the ends of the supporting bars and of certain of the reinforcing bars being

terminally extended beyond the side walls;
levers fulcrumed upon the protruding por-
tions of said reinforcing bars, the levers be-
ing pivotally connected with the supporting
5 bars; wings pivoted to the side walls; the
protruding ends of said bars constituting
stops to receive the wings, to aline the wings
with the side walls.

In testimony that I claim the foregoing
as my own, I have hereto affixed my sig- 10
nature in the presence of two witnesses.

ARTHUR J. FOX.

Witnesses:

JOHN GRAHAM,
CHARLES B. SCULLY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
