

(No Model.)

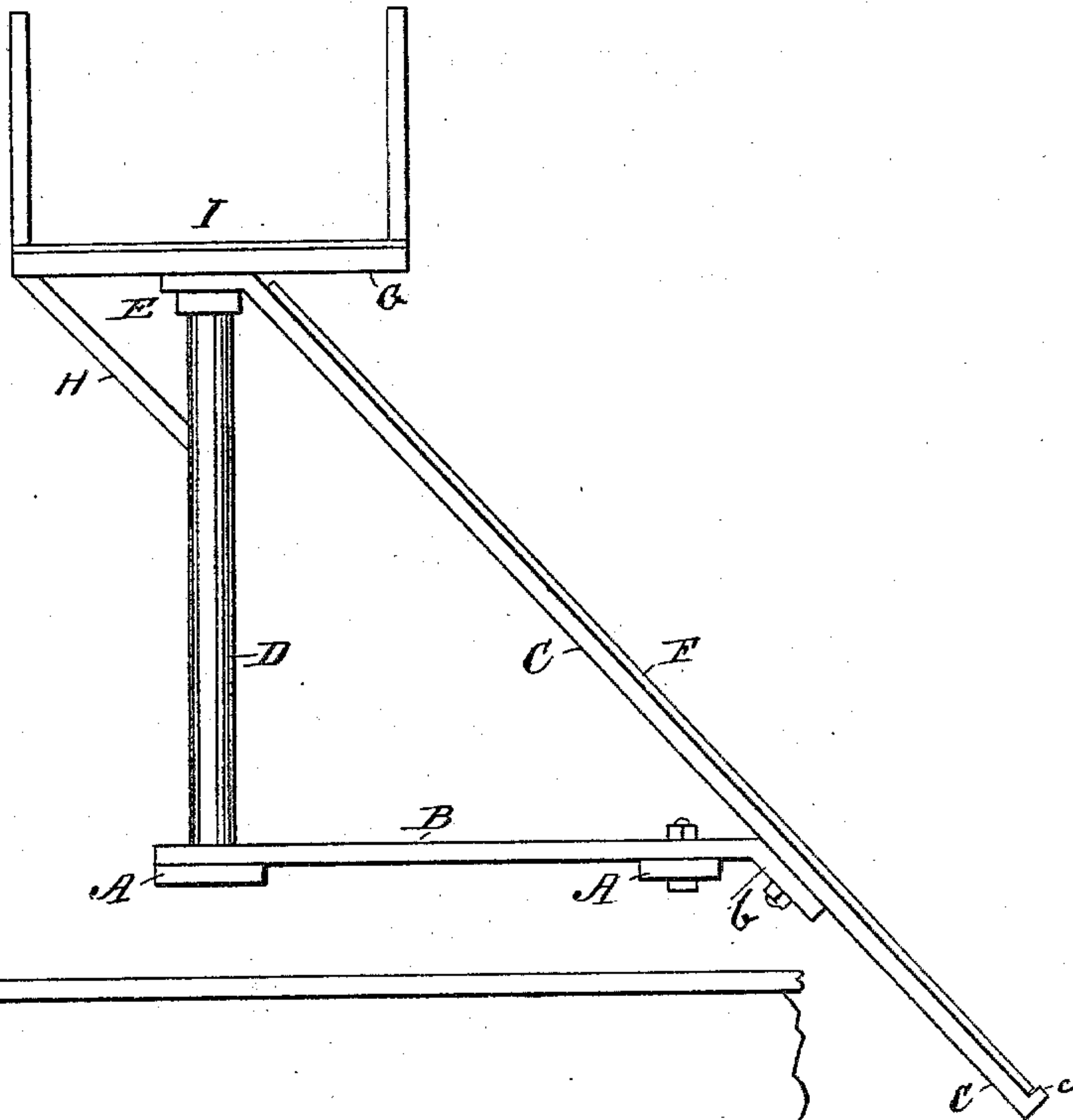
J. TORRAS.

LEVEE.

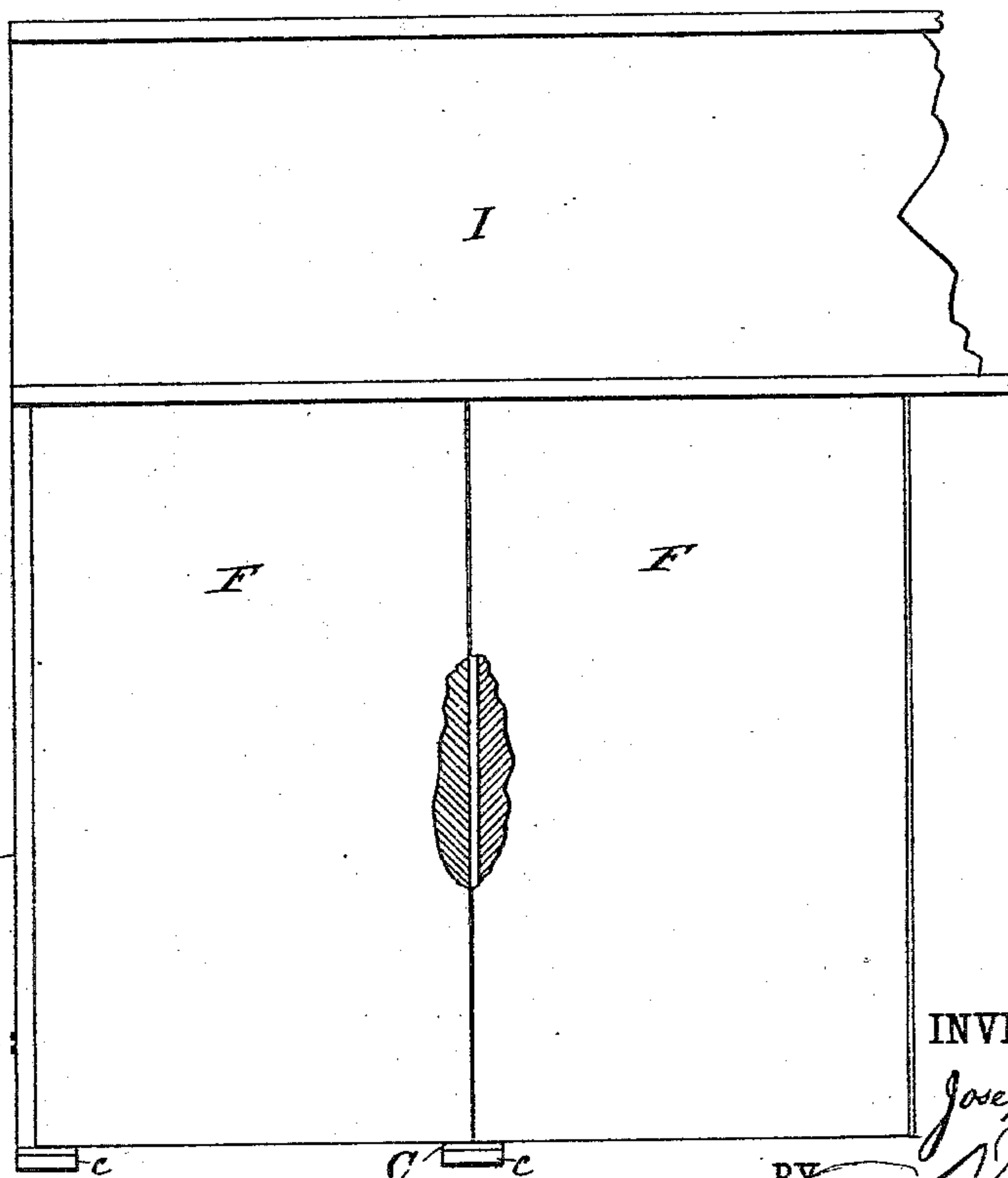
No. 283,684.

Patented Aug. 21, 1883.

Fig. 1.



*Fig. 2.*



**WITNESSES**

for C. Kemou  
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INVENTOR:

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BY

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# UNITED STATES PATENT OFFICE.

JOSEPH TORRAS, OF RED RIVER LANDING, LOUISIANA.

## LEVEE.

SPECIFICATION forming part of Letters Patent No. 283,684, dated August 21, 1883.

Application filed December 2, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH TORRAS, of Red River Landing, in the parish of Point Coupée and State of Louisiana, have invented a new and useful Improvement in Levees to Prevent Inundation, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, forming part of this specification.

10 My invention relates to levees for preventing low lands from inundation, which are built in sections, consisting of metal plates having one end set in the earth and supported in an inclined position by a suitable frame, and the invention consists of a supporting-frame; as hereinafter more particularly described and claimed.

20 In the drawings, Figure 1 is an end elevation of one of the sections of my improved levee; and Fig. 2 is a plan view, partly broken away.

The supporting-frame of each section of the levee is composed of two parallel bars, A A, connected by cross-bars B, which have their ends *b* inclined downward and bolted, respectively, to two inclined bars, C, the upper ends of which are connected to upright posts D, secured to the base of the frame. The upper ends of the posts are connected by a bar, E. The ends of the bars A A and E are to be adapted to form lap-joints with the corresponding bars of adjacent sections, and the parts are all to be firmly bolted together. The inclined bars C C are provided with projections *c* on the upper surface of their lower ends, against which rests a metal plate, F, which is supported upon the bars C C. There is to be one such plate to each section, and the plates are to be tongued and grooved at the

edges to adapt them to be fitted together water-tight.

40 It is designed that the bars C and the plates F shall extend obliquely below the level of the base bars, A A, about one-third of the length of the plates, and that this third shall be embedded in the earth. This construction 45 not only adds strength to the levee, but prevents the burrowing of craw-fish at the base of the levee.

The advantage of constructing the levee in sections is that it may be easily moved when a caving bank necessitates a change of location. The plates may be galvanized or otherwise protected against corrosion by moisture.

55 The structure may be provided with a platform for the convenience of travel by bolting cross-bars G to the tops of the posts D and supporting them by braces H, arranged as shown in the drawings. Upon these bars the platform I may be secured and provided with ladders for ascent and descent. 60

When the platform is to be used as a road-bed for a railway, it is intended that it shall be further strengthened by additional braces arranged in any suitable manner.

65 Having thus described my invention, what I desire to secure by Letters Patent is—

The combination, with the inclined and partially-embedded plates, of the frame, consisting of a base having uprights and inclined bars secured to the uprights and to one side 70 of the base, substantially as shown and described, and for the purpose set forth.

JOSEPH TORRAS.

Witnesses:

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