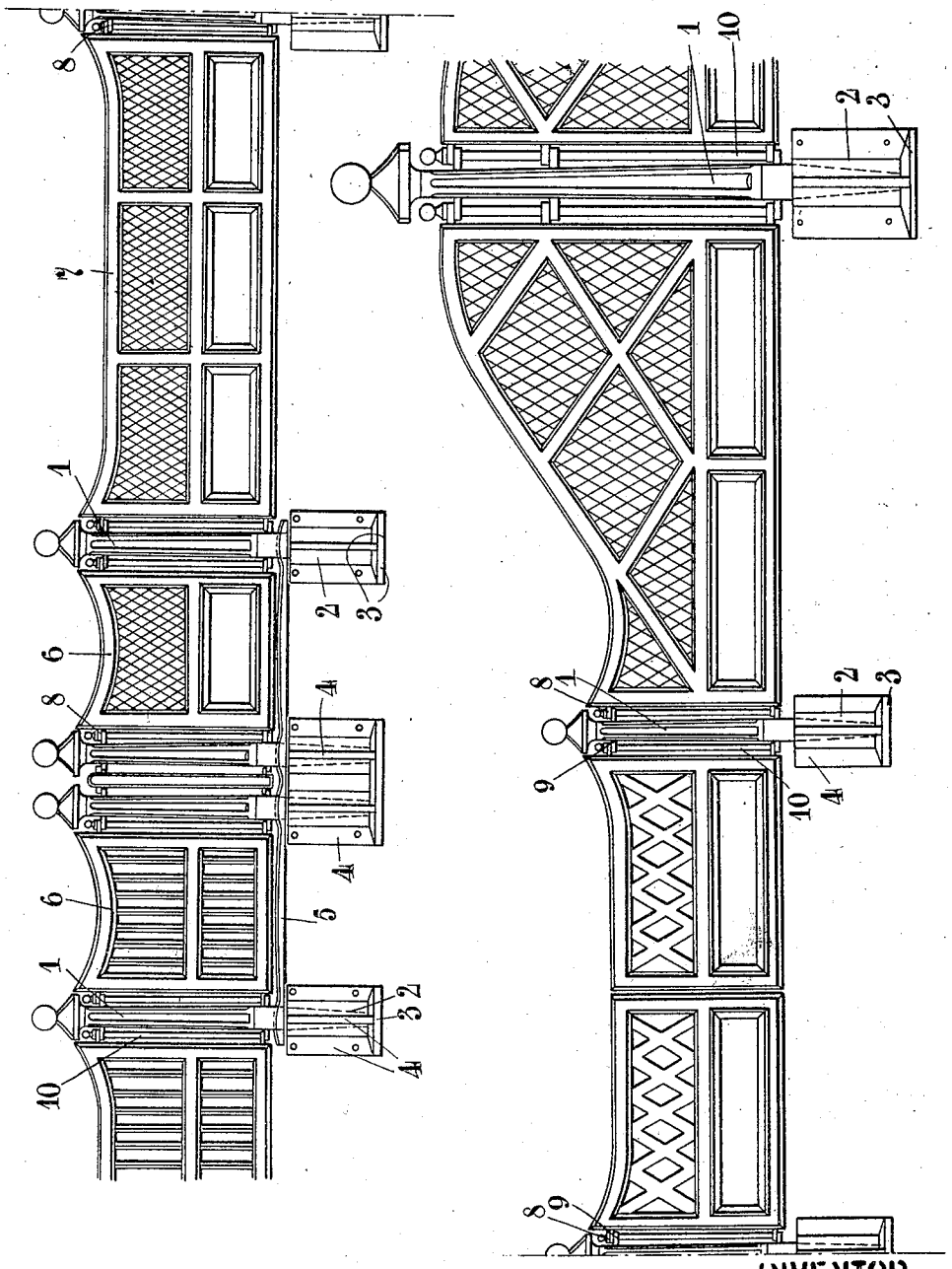
Jan. 29, 1924. 1,482,137

J. F. MATTHEWS

CONCRETE FENCING

Filed March 9, 1921



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UNITED STATES PATENT OFFICE.

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CONCRETE FENCING.

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To all whom it may concern:

Be it known that I, JOHN FREDERICK MATTHEWS, a subject of the King of Great Britain and Ireland, and residing at 29 Heathfield Avenue, Dover, in the county of Kent, England, have invented certain new and useful Improvements in Concrete Fencing, of which the following is a specification.

This invention relates to reinforced concrete fencing and has for its object to provide means whereby such a structure may be rapidly and cheaply constructed from parts which may be more or less standardized and may be pre-constructed away from the site on which the same are to be erected.

The invention consists in a reinforced fence construction comprising reinforced concrete posts, reinforced fence sections and lugs upon said posts and fence sections by which the same are united together.

The invention also consists in a reinforced concrete fence construction of the above character and comprising gates in which the gates also are formed with lugs co-operating with lugs upon the post members for the purpose of hanging the gates in position.

The invention also comprises other details and arrangements hereinafter described or indicated.

The accompanying drawings illustrate in elevation one convenient form of fencing constructed in accordance with the invention, the figure showing various forms of gate and fence sections and being divided into two parts in order to make the scale sufficiently large for clearness.

In carrying my invention into effect in one convenient manner I provide for the reinforced concrete posts 1, concrete anchor boxes 2, of suitable size and shape, each having a flat base 3, and strengthening and reinforcing wings 4, the latter being of such dimensions that they are flush with the upper part of the box so that a step slab 5, when such is employed, may rest upon the wings and box and be secured in position in any suitable manner.

The step slab may be cast with three curves upon the upper face, the central curve to rise from below the gate hinges on the one side and stops on the other reaching the highest point at the centre of the footway while the outer curves rise from the end of the central portion to the centre of the posts and thence fall to the outer edges. The slabs should also slope down for drainage purposes and have holes cast therein through which the posts pass into the anchor boxes.

The gates, 6, and fence sections, 7, which may be of any desired form, shape and ornamentation, are secured to the post members by means of lugs, 8, upon the gate and fence sections co-operating with lugs, 9, upon the post sections which are preferably formed of malleable cast iron and which are conveniently provided by extensions of the upper and lower horizontal reinforcements of the said sections. The lugs have holes drilled therethrough through which pin bars, 10, may be adapted to pass, care being taken that the holes are of a sufficient size or are of a shape to permit of the necessary extensions and contractions taking place in the metal due to changes of temperature or variations in the climatic conditions.

The lugs upon one side of each gate member with the pin bar passing therethrough will constitute the hinges upon which the gate is adapted to swing, while the lugs of the other end of the gate member may form stops adapted to limit the movement of the gate by coming in contact with the pin bar which at that side passes only through the lugs upon the post member.

If desired the lugs intended to form stops may be of U shape, the top lug having a grip sunk in its slightly extended forks for the latch of the gate to engage on.

It will be understood that the foregoing details of construction are given by way of example only as I may variously modify the shape and method of constructing the various elements from which my improved fencings are to be formed and I may modify also the character of the reinforcement employed for the various members—all as may be determined by any practical requirements that the invention may be called on to fulfil.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:—

A reinforced concrete fence construction comprising reinforced concrete posts, lugs formed in the reinforcements of, and projecting from, said posts, an anchor box for each

of said posts comprising a flat base and reinforcing projecting wing members, reinforced concrete fence sections, lugs formed in the reinforcements of, and projecting from the ends of said fence sections and adapted to register with the lugs on the post sections and coupling bars adapted to pass through the co-operating lugs for the purpose of uniting the post and fence sections together, substantially as described.

In testimony whereof I have signed my name to this specification.

JOHN FREDERICK MATTHEWS.