April 5, 1927. 1,623,151

F. WUSTHOLZ

CONCRETE FORM

Filed March 2, 1926

Fig. 1.

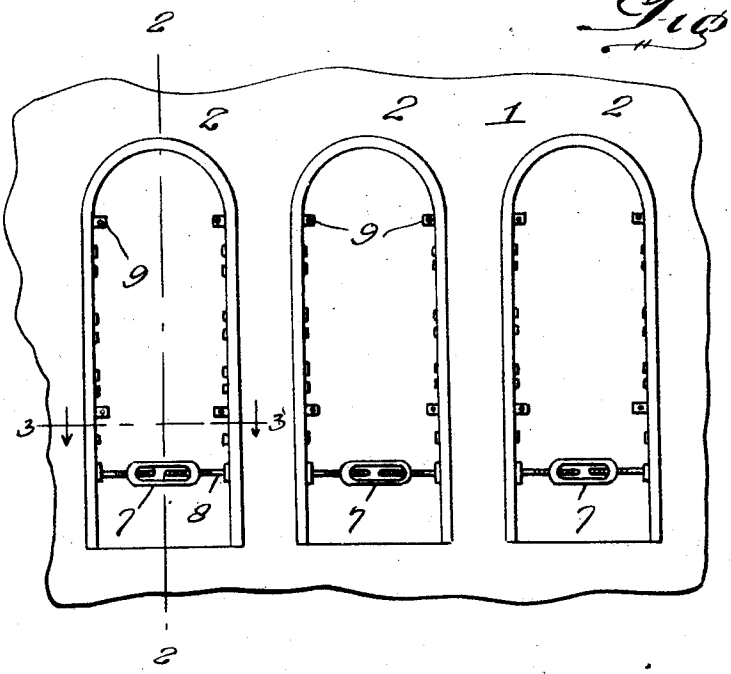


Fig. 2.

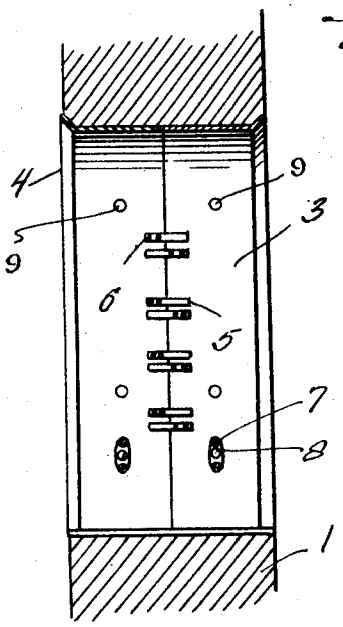
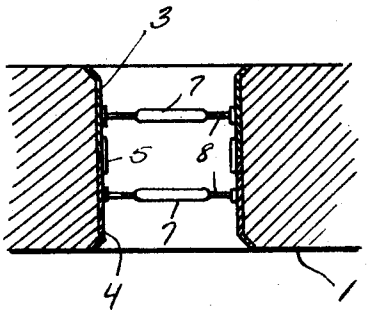


Fig. 3.



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UNITED STATES PATENT OFFICE.

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CONCRETE FORM.

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My present invention has relation to concrete forms; and it contemplates the provision of peculiar and advantageous concrete forms designed more especially for use in the construction of balustrades such as employed on concrete bridges and analogous work.

Other objects and practical advantages of the invention will be fully understood from the following description and claims when the same are read in connection with the drawings, accompanying and forming part of this specification, in which:—

Figure 1 is a side elevation illustrating a plurality of forms of my invention in use.

Figure 2 is a vertical section taken in the plane indicated by the line 2—2 of Figure 1.

Figure 3 is a horizontal section taken in the plane indicated by the line 3—3 of Figure 1.

Similar numerals of reference designate corresponding parts in all of the views of the drawings.

I show in Figure 1 the balustrade portion 1 of a bridge or other structure, of concrete, and I also show in said figure a plurality of my novel forms, each of the latter being designated in general by the reference character 2.

The forms illustrated are identical in construction, and therefore a detailed description of the form shown at the left of Figure 1 and in Figures 2 and 3 will suffice to impart a definite understanding of all. The form alluded to is made up of two major sections 3, preferably of sheet steel, and therefore adapted for repeated use for an indefinite period of time. Each of the sections 3 is of general inverted U-form, and each is flanged at its outer edge as designated by 4, the flanges being preferably of flared type as appears in Figures 2 and 3. Each section 3 is provided on its pendent portions with rigid lapping bars 5, the same being so designated inasmuch as while fixed at 6 to one section the bars 5 overlap the other section at the inner side thereof, so that the bars 5 arranged as shown in Figure 2 will hold the pendent portions of the sections 3 in edgewise alinement. In the preferred arrangement the bars 5 on opposed sections 3 are alternate, and hence it will be understood that the inner portion of each section 3 will operate reliably in preventing undue outward movement of the pendent portion of the other section 3.

Turn buckles 7 are employed between the lower portion of the legs of each section 3, said turn buckles being mounted on reversely threaded rods 8 fixed to and extending inwardly from the said legs.

Manifestly by manipulation of the turn buckles 7, the legs of the sections 3 may be thrust powerfully outward, and may also be drawn inward or toward each other, as when it is desired to remove the form from a set structure.

At 9, Figures 1 and 2, are cleats to fasten the form and hold the same in working position.

It will be apparent from the foregoing that my novel forms, characterized as set forth, are adapted to be used to advantage in facilitating the construction of balustrade for concrete bridges and other structures, and that the forms are susceptible of being readily positioned for use and as readily removed following completion of the work. Again it will be appreciated that my novel forms assure accuracy and uniformity in construction, and that they are calculated to impart to a balustrade a highly attractive appearance.

I have entered into a detailed description of the construction and relative arrangement of the parts embraced in the present and preferred embodiment of my invention in order to impart an exact understanding of the said embodiment. I do not desire, however, to be understood as confining myself to the details of structure and arrangement as disclosed, my invention being defined by my appended claims within the scope of which changes in structure and arrangement may be made without departure from my invention.

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

1. A concrete form comprising opposed U-shaped sections with flanges on their outer edges, cleats complementary to the said sections for holding the sections in working position, rigid lapped bars carried by each section at the inner side thereof and resting at the inner side of the other section, and means interposed between the opposite portions of each section for thrusting said portions away from each other and for drawing said portions toward each other.

2. A concrete form comprising opposed U-shaped sections with flanges on their outer edges, cleats complementary to the said sec-

tions for holding the sections in working position, rigid lapped bars carried by each section at the inner side thereof and resting at the inner side of the other section, and means interposed between the opposite portions of each section for thrusting said portions away from each other and for drawing said portions toward each other; the said means being in the form of a turn buckle mounted upon and engaging reversely threaded rods connected to and extending inwardly from opposite portions of the sections.

3. As a new article of manufacture, a concrete form section of sheet steel, and of general U-form, said section having rigid bars fixed to the inner side thereof and extending beyond the inner edge of the section and also having means between its opposite portions for thrusting said portions outwardly and retracting said portions; said section being provided at its outer edge with a flared flange.

4. A concrete form made up of U-shaped sheet metal sections of general U-form; said sections adapted to use with their inner edges in opposed relation, and having flared flanges on their outer edges, lapped bars fixed to the inner sides of the opposed portions of each section and resting snugly against the inner sides of the opposed portions of the other section, means complementary to each section for fastening the same and retaining it in place, and means interposed between the opposite portion of each section for thrusting said portions outwardly and for retracting the same.

In testimony whereof I affix my signature.

FRED WUSTHOLZ.