Nov. 23, 1926. 1,608,406

J. E. McFARLAND

FORM HOLDING YOKE

Filed Jan. 14, 1926

Fig. 2.

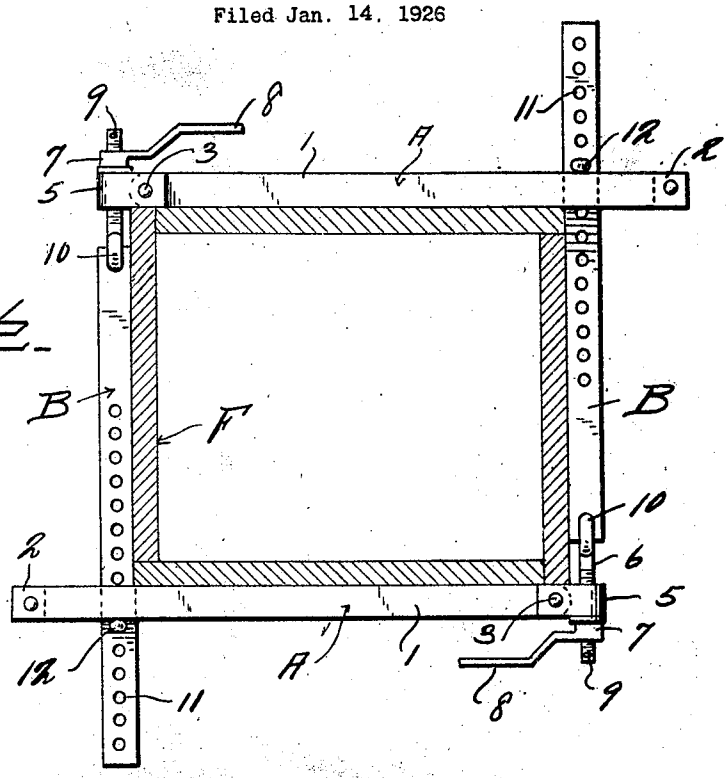


Fig. 3.

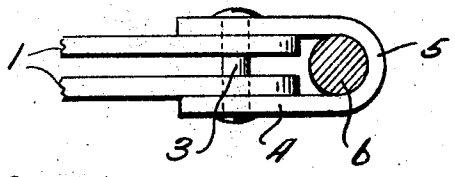
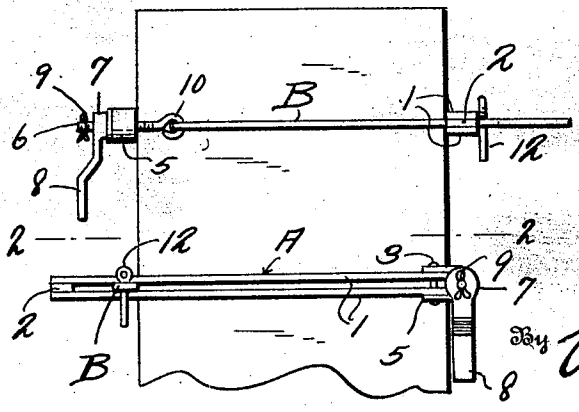


Fig. 1.



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UNITED STATES PATENT OFFICE.

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FORM-HOLDING YOKE.

Application filed January 14, 1926. Serial No. 81,321.

This invention relates to a form holding yoke and has relation more particularly to a device of this general character especially designed and adapted for use in mintaining in desired assembly the forms for molding concrete columns and the like.

It is an object of the invention to provide a yoke of this kind which may be readily and conveniently adjusted in accordance with the requirements of practice and which, when not in use, may be folded or compacted to occupy a minimum of space to facilitate either storage or shipment.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved form holding yoke whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein:—

Figure 1 is a fragmentary view in elevation of a column form having applied thereto several yokes constructed in accordance with an embodiment of my invention;

Figure 2 is an enlarged view partly in section and partly in top plan illustrating one of my improved yokes in applied position, the section being taken substantially on the line 2—2 of Figure 1;

Figure 3 is a fragmentary view partly in side elevation and partly in section illustrating in detail the structure of an end portion of one of the holding members as herein employed.

As herein disclosed, my improved yoke comprises two holding members A of duplicate construction but reversely arranged when in assembled relation and two spacing members B also of duplicate construction and in reverse assembly when in applied position.

Each of the members A comprises two elongated strips 1 arranged one above the other and in spaced relation and having interposed between adjacent ends a spacer block 2. The opposite end portions of the member 1 have pivotally connected therewith through the medium of the rivet 3 or the like the free end portions of the side arms 4 of a substantially U-shaped member 5, the intermediate portion of the member 5 being positioned a predetermined distance beyond the adjacent ends of the members 1 so that the member 5 is capable of swinging movement with respect to the associated members 1.

Extending between the arms 4 of the members 5 adjacent the intermediate or base portion thereof is a threaded shank 6 having threaded on the outer end portion thereof a nut 7 provided with an operating handle 8. This nut 7 is adapted to bear upon the outer side of the member 5 and is prevented from complete displacement with respect to the shank 6 by a cotter pin 9 or the like disposed through the shank 6 at a desired point outwardly of the applied nut 7.

The opposite or inner end portion of the shank 6 is provided with an eye member 10 which is freely disposed through an end portion of a spacing member B. This member B comprises an elongated flat bar of desired length and when the yoke is in applied position, the outer or free end portion of the bar is disposed between the strips 1 of the second member A inwardly of the spacer block 2. This member B is provided therealong with a series of spaced openings 11 through which is adapted to be selectively inserted a pin 12, said pin 12 when applied coacting with the outer side of the second member A.

In applying one of my improved yokes to a form F, the member B operatively engaged with one member A is freely disposed through the strips 1 of the second member A whereby the members A and B may be readily and quickly adjusted to have close contact with the walls of the form, after which the pins 12 are properly applied.

To further increase the efficiency of the yoke upon the form, the requisite turning of the nut 7 will result in the members A being brought into tight contact with the form.

It is also to be understood in practice that adjacent forms are preferably in quarter relation as illustrated in Figure 1 whereby the form at all points is effectively held and braced by the yokes.

When the yoke is not in use, a member B may be readily swung into closed position alongside of a member A so that they will

occupy a minimum of space and which is of particular importance for storage or shipment and also in handling.

It will also be understood that the members 5 readily permit the spacing members B to be arranged at varying angles with respect to the members A as the occasions of practice may demand and also permits the use of more than two sets of members A and B when it is desired to brace or hold a mold having more than four sides or in the event such mold or form should be circular.

From the foregoing description it is thought to be obvious that a form holding yoke constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:—

1. A form yoke comprising a plurality of units adapted to interlock, each of said units comprising a holding member having a slot extending lengthwise thereof, a U-shaped member having side arms pivotally connected with one end portion of the holding member, a shank disposed between the side arms of said U-shaped member outwardly of the adjacent end of the holding member, a retaining means engaged with the outer portion of said shank, an elongated member having a hinged connection with the inner end portion of the shank, the free end portion of the elongated member of one unit being adapted to be freely inserted through the slot of the holding member of a second unit, and a second retaining member engageable with said elongated member outwardly of the holding member of the second unit.

2. A form yoke comprising a plurality of units adapted to interlock, each of said units comprising a holding member having a slot extending lengthwise thereof, a U-shaped member having side arms pivotally connected with one end portion of the holding member, a shank disposed between the side arms of said U-shaped member outwardly of the adjacent end of the holding member, a retaining means engaged with the outer portion of said shank, an elongated member having a hinged connection with the inner end portion of the shank, the free end portion of the elongated member of one unit being adapted to be freely inserted through the slot of the holding member of a second unit, said elongated member being provided with a series of longitudinally spaced openings, and a second retaining member selectively insertible through said openings at a point outwardly of the holding member of the second unit.

In testimony whereof I hereunto affix my signature.

JOSEPH E. McFARLAND.