Jan. 29, 1924. 1,482,086

J. H. MAYWORM

FLASK STRAP

Filed May 3, 1921

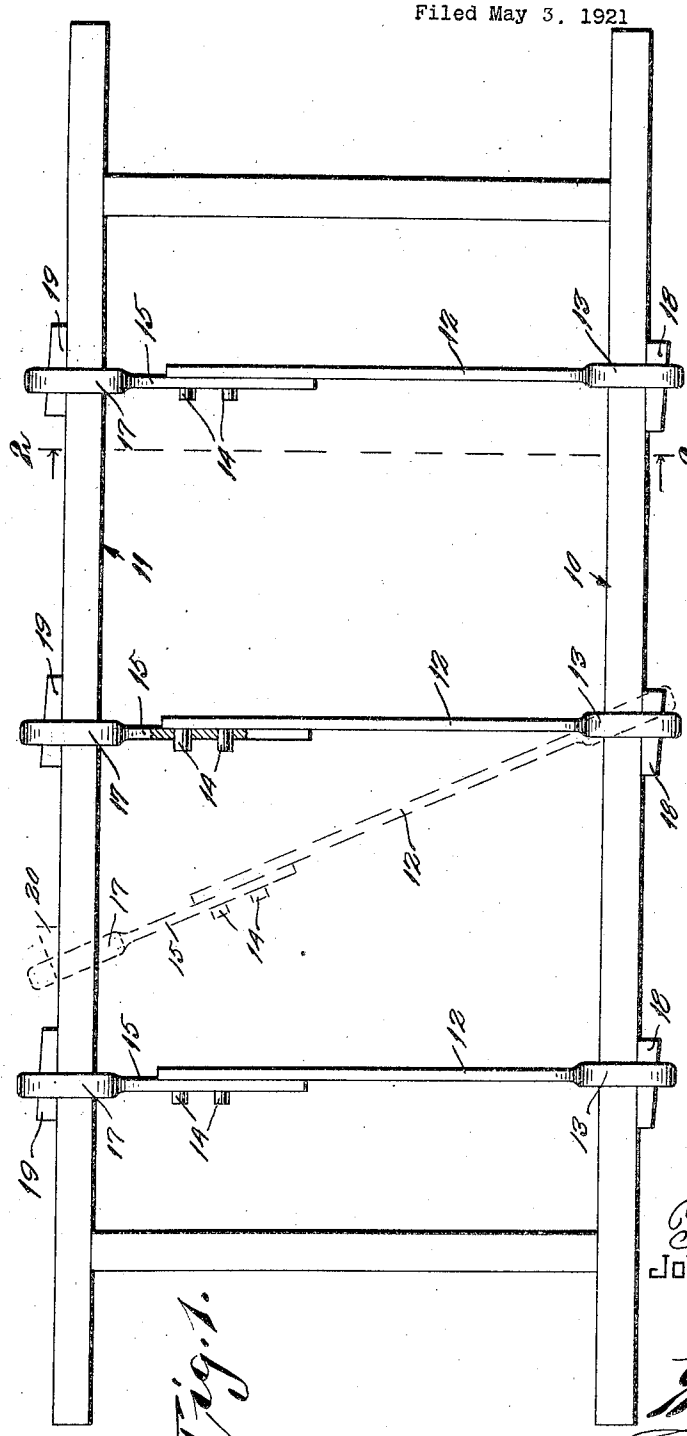


Fig. 1.

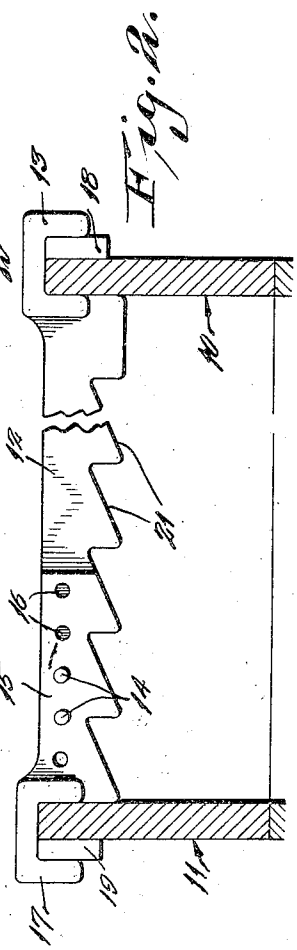


Fig. 2.

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UNITED STATES PATENT OFFICE.

JOHN H. MAYWORM, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO WEHR STEEL COMPANY, OF WEST ALLIS, WISCONSIN.

FLASK STRAP.

Application filed May 3, 1921. Serial No. 466,576.

To all whom it may concern:

Be it known that I, JOHN H. MAYWORM, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Flask Straps; and I do hereby declare that the following is a full, clear, and exact description thereof.

The invention relates to improvements in flask straps, and more particularly to a type of the same adapted for use in connection with cope flasks or molds.

It is the present practice to make use of transversely extending wooden straps or bars for the purpose of anchoring or supporting core in position with a flask mold, and these straps have to be renewed with each pouring of the material to be molded, inasmuch as they are burnt out or otherwise destroyed in each molding operation, and, consequently, are a source of continued annoyance throughout successive molding operations, causing an undue and otherwise unnecessary expenditure of time and money in such operations.

The principal object of the invention is therefore to provide for an improved strap construction of the class mentioned, and one of a comparatively long life, whereby to be used for indefinite periods throughout successive molding operations, and, consequently effect a marked saving in the cost of such operations, as well as a corresponding saving in the time required for the accomplishment of each of such operations.

Another and equally important object of the invention is to provide for a flask strap of the type specified, and one of a nature to be adjustable for use on molds or flasks of various sizes, and at any desired or necessary angle with respect thereto, such as is not possible in the use of the wooden straps as aforesaid by reason of the fact that the latter straps must be made in varying lengths, one length correspondingly for each particular sized mold or flask used.

A further and important object of the invention is to provide for a flask strap of the character set forth, and one capable of being readily and easily removed from position, or loosened from such position, for the easy shaking out of the sand content of the mold or flask, such as cannot now be readily accomplished by reason of the wooden straps used, as aforesaid, being nailed or otherwise positively secured in position to the opposite walls of the mold or flask.

With the foregoing and other objects in view, the invention resides in the certain novel and useful construction and arrangement of parts as will be hereinafter more fully described, set forth in the appended claim, and illustrated in the accompanying drawing, in which:—

Figure 1 is a top plan view of a mold or flask showing several of the preferred embodiments of the invention as applied thereto, and

Figure 2 is a vertical transverse section taken on the line 2—2 of Figure 1.

Referring to the drawing, the numerals 10 and 11 indicate the opposite side walls of a conventional form of mold box or flask upon the top edges of which are adapted to be positioned and secured the transversely extending flask straps from which the core is to be supported in position.

The improved flask straps, as shown, comprise a long metal bar 12 having an inverted substantially U-shaped outer end portion 13 adapted to be engaged over the top edge of one of the vertical side walls, the side wall 10 in the present instance, and having a pair of spaced projections or circular lugs 14 disposed laterally inward from its inner end, and a shorter metal bar 15 having its inner end disposed in overlapping relation with respect to the inner end of the longer bar 12 and provided with a series of spaced circular openings 16 adapted to be selectively engaged by the projections or lugs 14 of the latter bar 12. The outer end of the shorter bar 15 is also provided with an inverted substantially U-shaped portion 17 adapted for engagement over the top edge of the other of the vertical side walls, the side wall 11, of the mold box or flask.

The straps thus formed are adjusted to a proper length corresponding to the width of the mold box or flask so that the inner of the legs of the inverted U-shaped portions 13 and 17 lie in close proximity to the opposed faces of the complemental side walls 10 and 11, when suitable wedge members 18 and 19, respectively, will be driven between the outer of the leg members of the portions 13 and 17 and the opposed outer faces of the side walls 10 and 11. As shown in dotted lines in Figure 1 of the

drawings, the straps may be disposed diagonally of the mold box or flask at any desired or necessary angle as distinguished from their normal transversely disposed positions as shown in full lines, and for securing the same in such diagonal or angular position, corresponding angular faced wedges 20 are to be provided. The lower edges of both of the bars 12 and 15 are preferably and correspondingly slotted or toothed, as at 21, for allowing clearance of the usual lugs or projections of the patterns (not shown) thereunder, when operatively positioned and supporting the pattern within the mold box or flask.

It is well understood that, while the subject-matter of the present application has been described and illustrated herein in specific terms and details of construction and arrangement, various modifications of the same and changes in size, configuration and manner of adjustment and use, may be resorted to without departing from the spirit of the invention or from the scope of the claim appended hereto.

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

A pattern supporting strap adapted for longitudinal adjustment, hooks carried by the end portions of said strap for securing the same to a mold box, and notches formed on the lower edge of said strap and adapted to support the pattern within a mold box.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

JOHN H. MAYWORM.