Dec. 23, 1941. H. F. HOHLFELDER 2,266,971

CHAPLET

Filed Aug. 12, 1939

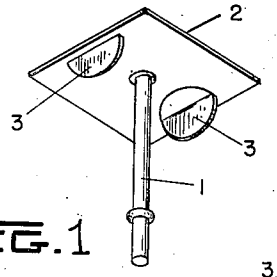


FIG. 1

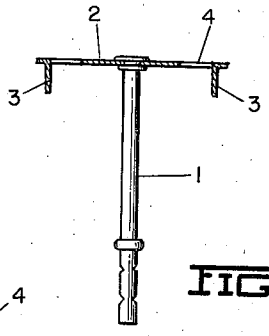


FIG. 3

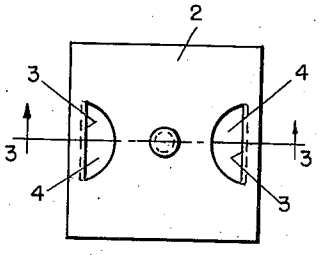


FIG. 2

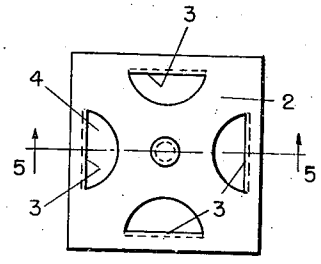


FIG. 4

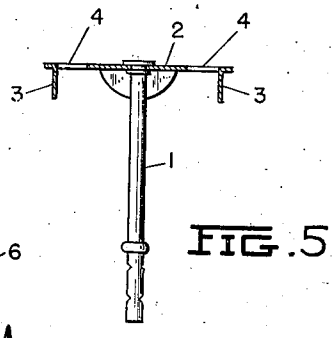
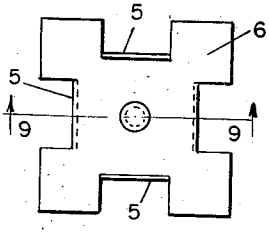


FIG. 8

FIG. 5



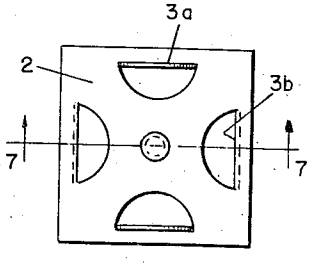


FIG. 6

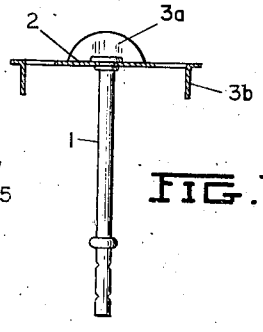


FIG. 7

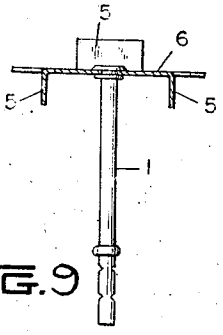


FIG. 9

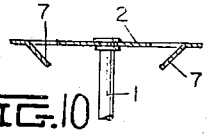


FIG. 10

INVENTOR.
HARVEY F. HOHLFELDER.

BY Oberlin, Limbach & Day
ATTORNEYS

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UNITED STATES PATENT OFFICE

2,266,971

CHAPLET

Harvey F. Hohlfelder, Cleveland Heights, Ohio, assignor to The F. Hohlfelder Company, Cleveland, Ohio, a corporation of Ohio

Application August 12, 1939, Serial No. 289,846

1 Claim. (Cl. 22—184)

This invention relates, as indicated, to foundrymen's chaplets and is primarily concerned with the provision of an improved chaplet the head of which is so formed as to provide a more efficient anchor in the sand of the mold than chaplets which have been heretofore available.

It is a further object of my invention to provide a chaplet in which the head is so formed that not only does the sand readily pack around the head but the head itself, by the provision of novel struck-up portions, is provided with bearing areas which prevent the chaplet from shifting laterally in the sand.

Other objects of my invention will appear as the description proceeds.

To the accomplishment of the foregoing and related ends, said invention, then, consists of the means hereinafter fully described and particularly pointed out in the claims.

The annexed drawing and the following description set forth in detail certain structure embodying the invention, such disclosed means constituting, however, but one of various structural forms in which the principle of the invention may be used.

In said annexed drawing:

Fig. 1 is a perspective view of one form of chaplet embodying the principles of my invention;

Fig. 2 is a plan view of the head of the chaplet shown in Fig. 1;

Fig. 3 is a sectional view of the chaplet illustrated in Fig. 2 taken on a plane substantially indicated by the line 3—3;

Fig. 4 is a plan view similar to Fig. 2 but showing a modified form of chaplet head;

Fig. 5 is a sectional view of the chaplet illustrated in Fig. 4 taken on the plane substantially indicated by the line 5—5;

Fig. 6 is a plan view of still another modified form of my invention;

Fig. 7 is a sectional view of the chaplet illustrated in Fig. 6 taken on a plane substantially indicated by the line 7—7;

Fig. 8 is a plan view of still another modified form of my invention;

Fig. 9 is a sectional view of the chaplet illustrated in Fig. 8 taken on a plane substantially indicated by the line 9—9; and

Fig. 10 is a fragmentary sectional view of another modified form of my invention.

As most clearly illustrated in Figs. 1 to 3, the chaplet comprising my invention consists of a stem generally indicated at 1 and a head generally indicated at 2. Refinements in the structure of the stem, such as break-off nicks, etc., are not shown and since they form no part of the present invention will not be further described.

The head 2 of the chaplet comprises a substantially rectangular plate which is secured to the stem by conventional methods and is provided with a pair of struck-out portions 3 which in the form illustrated in Figs. 1 to 3 are bent to project from the lower face of the chaplet head in the direction of the stem 1 and substantially normal to the plane of the head 2. The openings 4, from which the tabs 3 are cut, provide an area within which the sand may pack around the chaplet head and particularly around the tabs 3. A chaplet constructed as thus illustrated has an increased bearing area in a plane normal to the plane of the flat head, thus providing a considerably greater resistance to the chaplet shifting in the sand.

Instead of providing a pair of tabs 3, as illustrated in Figs. 1 to 3, I may provide four such tabs, as illustrated in Figs. 4 and 5, if the increased bearing area provided by such additional tabs should be necessary.

As a further expedient in increasing the bearing area between the chaplet head and the sand, I may arrange one or more of the tabs, such as 3*a*, in a direction opposite that from which the remainder of the tabs 3*b* extend. When four tabs are employed the arrangement of the oppositely directed tabs will be preferably as illustrated in Figs. 6 and 7.

The chaplet illustrated in Figs. 8 and 9 is somewhat different from the disclosures of the previous figures in that the tabs 5 by which lateral bearing between the head and sand is provided are cut out of openings which extend inwardly from the sides of the head 6. In the form illustrated in Figs. 8 and 9 it will be apparent of course, in the light of the previous figures, that only one pair of tabs 5 may be employed and these may be bent to face either in the direction of the stem or to extend from the opposite face of the head, and, furthermore, that four such tabs may be employed which may all extend in the same direction from the face of the head 6, or preferably opposite pairs may extend from opposite faces of such head.

When the tabs 7, as illustrated in Fig. 10, are bent so as to be angularly related to the stem, they assist in directing the sand which passes through the openings from which the tabs are stamped, against the stem centrally of the lower face of the chaplet and thus serve the dual func-

tion of providing additional lateral bearing between the chaplet head and the sand and insure a close packing of the stem centrally of the head.

The chaplet comprising my invention is extremely simple to manufacture, may be handled with facility during insertion in the mold, and provides such improved bearing between the chaplet head and the sand as to more efficiently prevent lateral shifting of the chaplet within the sand than do the constructions of the prior art.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the structure herein disclosed, provided the means stated by the following claim or the equivalent of such stated means be employed.

I therefore particularly point out and distinctly claim as my invention:

A chaplet comprising a head and a stem, said head being adapted to be received entirely within a mold part and thus anchor the chaplet in a mold part, said stem being adapted to enter and support a core, said head comprising a substantially flat plate having parts struck up therefrom to provide openings in said plate through which the mold material may flow to pack around said head and struck up portions, said struck up portions extending angularly with respect to the plane of said flat plate for preventing lateral displacement of said plate and said stem in the mold material, said flat plate preventing axial movement of said stem, whereby said chaplet is securely anchored in said mold part.

HARVEY F. HOHLFELDER.