

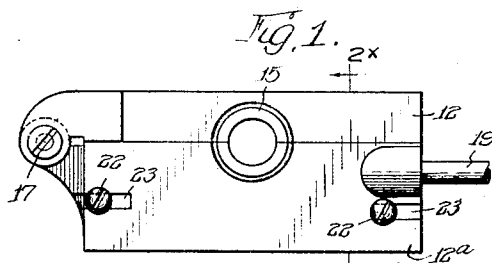
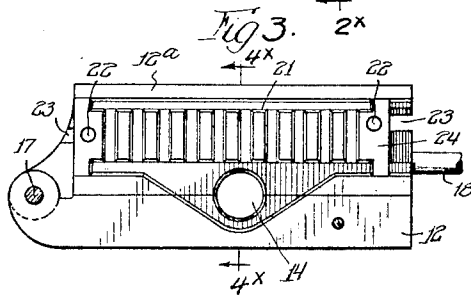
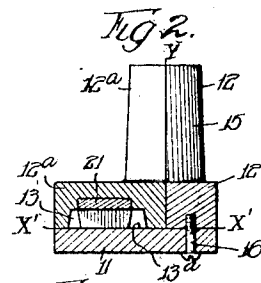
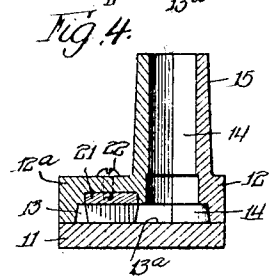
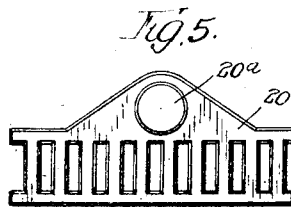
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1,466,129

E. J. KUKAC

DIVIDED MOLD

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UNITED STATES PATENT OFFICE.

EDWARD J. KUKAC, OF CHICAGO, ILLINOIS.

DIVIDED MOLD.

Application filed March 14, 1921. Serial No. 452,210.

To all whom it may concern:

Be it known that I, EDWARD J. KUKAC, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Divided Molds, of which the following is a specification.

This invention relates to molds for casting objects which are to be released by the opening of the mold, and has for its purpose to provide an improved construction of mold which will be of simple and light construction, convenient to manipulate, efficient in rapidly producing articles which involve the use of two or more connected cavities, one of which is offset from the other for the purpose of producing an appendage or projection on the casting and adapted to produce the body of the casting and its appendage in different relative positions in different castings.

The invention proceeds upon the principle of dividing the mold into members located on opposite sides of a main dividing plane, whose separation will open one cavity of the mold, subdividing the member on one side of said main divided plane by a plane which intersects (preferably perpendicularly) the main dividing plane, and also intersects the additional cavity the cavity first named having within it a coring member or the like which is adjustable in order to enable the body of the casting to be formed in different positions relatively to its appendage that is formed in the aforesaid additional cavity.

In the accompanying drawings the preferred embodiment of the invention is shown by way of illustration,—

Figures 1 and 2 being, respectively, a plan view and a section on the line 2^x—2^x of Figure 1 showing a mold adapted for casting a pillar plate strap for storage batteries;

Figures 3 and 4 being, respectively, a section of Figure 1 on the main dividing plane and a section of Figure 3 on the line 4^x—4^x of Figure 3; and

Figure 5 being a specimen of the work produced by the mold shown in Figures 1 to 4.

The base member 11 is located on one side of the main plane of separation α' . α' , while the complementary members 12, 12^a are located on the other side of said plane and hinged thereto through the medium of the pintle 17. The primary cavity 13 is formed in the member 12^a with its bottom wall sup-

plied by the face 13^a of the member 11, and the additional cavity 14 communicating therewith is formed partly in one and partly in the other of the two complementary members 12, 12^a. The gate 15 of the mold is the upper end of the additional cavity 14, and the means for arresting the mold members in proper registry with the base member consists of the screw 16, in this instance inserted through the base member into the member 12, and holding the member 12 normally stationary with reference to the base so that only the member 12^a need be moved upon the pintle 17 to empty the mold. In the cavity 13 is a coring member 21 which adapts the mold to produce the pillar plate strap 20 of a battery (Figure 5), the shank 20^a of which is produced by the additional cavity 14. Core member 21 is adjustably secured in the cavity 13 by means of the screws 22 working in the longitudinal slots 23, and in this way may be adjusted longitudinally to bring the ribs and recesses of the castings in different positions relatively to the shank 20^a, so that the strap will be adapted to serve as a right-hand strap or a left-hand strap in the battery, as may be desired. Preferably the ends 24 of the strap forming core constitutes the ends of the cavity 13.

The members of the mold may be held together by handles 18 and 19 during the process of pouring and in otherwise manipulating the mold.

I claim:

1. A mold comprising members on opposite sides of a main dividing plane and constructed with a cavity that is opened by the separation of said members; the portion of the mold lying on one side of said main dividing plane being constructed with an additional cavity which communicates with the cavity first named and being subdivided by a plane intersecting said additional cavity and said main dividing plane; said mold having within its first-named cavity a coring member adapted to form a reticulated or grated structure with openings definitely related to the cast developed by said additional cavity; and said coring member being adjustable to change the relation of the openings of said reticulated structure with relation to the cast in said additional cavity.

2. A divided mold comprising relatively movable members constructed with a cavity opened by their separation, a grating core carried by one of said members in position to

determine the form cast in said cavity, and an additional cavity in said mold communicating with the cavity containing said coring member and adapted to form a shank on the casting; said coring member being adapted to slide longitudinally in the cavity which contains it to modify the relation of the grating to the shank.

3. A divided mold comprising relatively movable members constructed with a cavity opened by their separation, a grating core carried by one of said members in position to determine the form cast in said cavity, and an additional cavity in said mold communicating with the cavity containing said coring member and adapted to form a shank on the casting; said coring member being adapted to slide longitudinally in the cavity which contains it to modify the relation of the grating to the shank; and said coring member constituting end closures of the cavity in which it is located.

4. A divided mold comprising relatively movable members constructed with a cavity opened by their separation, a grating core carried by one of said members in position to determine the form cast in said cavity, and an additional cavity in said mold communicating with the cavity containing said coring member and adapted to form a shank on the casting; said coring member being adapted to slide longitudinally in the cavity

which contains it to modify the relation of the grating to the shank; and said mold having means for adjustably locking said coring member in place.

5. A divided mold comprising relatively movable members constructed with a cavity opened by their separation, a grating core carried by one of said members in position to determine the form cast in said cavity, and an additional cavity in said mold communicating with the cavity containing said coring member and adapted to form a shank on the casting; said coring member being adapted to slide longitudinally in the cavity which contains it to modify the relation of the grating to the shank; and said coring member constituting end closures of the cavity in which it is located and slot and screw connections between the mold body and the ends of said coring member.

6. A divided mold, comprising relatively movable members constructed to form a grid cavity and a post cavity communicating therewith, and a grid core located in the grid cavity and having means for holding it in different positions therein to vary the relation of the post formed in the post cavity to the grid produced by the grid cavity.

Signed at Chicago, Illinois, this 7th day of March, 1921.

EDWARD J. KUKAC.