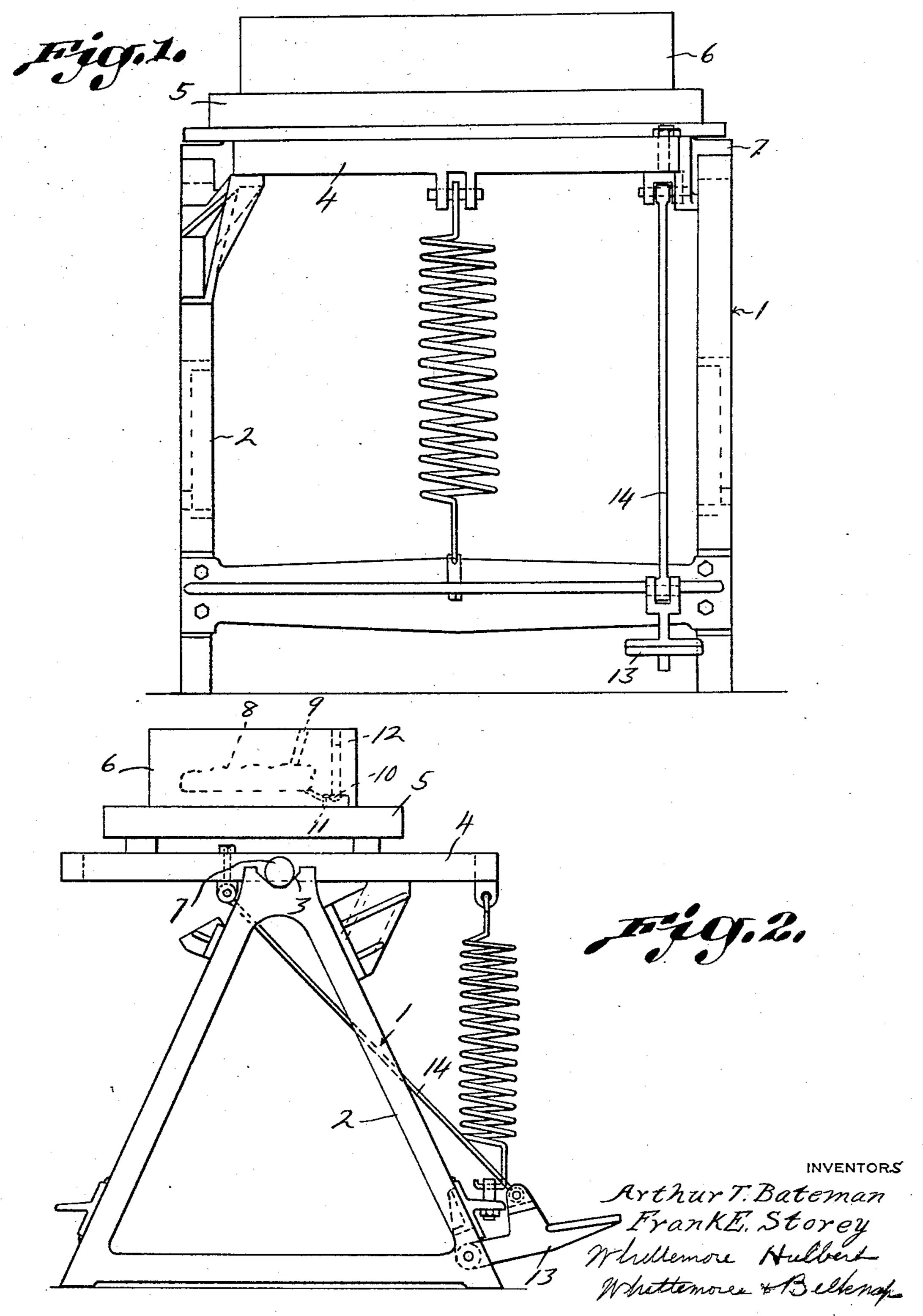
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MOLD STAND

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MOLD STAND

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The invention relates to stands for sup- For the purpose of swinging the pivotal porting molds and has for one of its objects member 4 upon the base 1 to thereby tilt the the mounting of a mold so that it may tilt mold so that the air in the mold cavity will during the casting operation and thereby pro- not be trapped and can completely escape, vide for the escape of air from the mold we have provided the lever 13 pivotally con- 55 cavity and the filling of the mold cavity with nected to the base 1 near its bottom so that the molten metal. Another object is to so this lever may be actuated by the operator's mount the mold that it may be continuously foot. 14 is a rod pivotally connected at one tilted during the pouring operation. Further end to the lever 13 and at the other end to 10 objects of the invention reside in the novel the pivotal member 4 laterally beyond the 60 features of construction and combinations gudgeons 7. To normally hold the pivotal and arrangements of parts as more fully member 4 in a predetermined position relahereinafter set forth. In the drawings:—

stand embodying our invention;

20 this mold cavity may be completely filled secured to the base 1 near its bottom. 17 and 70 25 mold stand having the triangular frame ence of the coil spring 15 and the influence of 75 members 2 at its ends, each of which has the lever 13 and the rod 14. formed in its top the transversely extending. With this arrangement of molding stand,

instance, is formed of a plurality of perma- 10 and the vent passages 12. nent sections which cooperate to form the What we claim as our invention is: mold cavity 8 connected into from the top of 1. In a stand for supporting a mold, the the mold by the gate 9. This mold has the combination of a base, mold supporting means see cavity and is connected therewith by suitable to provide for tilting of the mold, and means restricted passages 11. Furthermore, the for actuating said movable member to promold has the vent passages 12 leading up-vide for continuous and gradual tilting of the wardly from the annular passage 10 to the mold during the pouring operation. top of the mold. The arrangement of mold 2. In a stand for supporting a mold, the is such that air within the mold cavity may combination of a base, mold supporting means escape through the restricted passages 11, upon said base, including a member movable the annular passage 10 and the vent pas- to provide for tilting of the mold, a pivotal sages 12.

tive to the base I and in the present instance in a horizontal position, we have provided Figure 1 is a front elevation of a mold the coil spring 15, one end of which is con- 65 nected to the pivotal member 4 on the side Figure 2 is an end elevation thereof. of the gudgeons 7 opposite to the pivotal For the purpose of providing for the escape connection of the rod 14 to the pivotal memof air from the mold cavity of a mold so that ber 4. The other end of this coil spring is with molten metal, we have provided a con- 18 are brackets secured to the base 1 near its struction of mold stand by means of which top and on opposite sides of the gudgeons 7 the mold may be tilted during the casting for respectively limiting the swinging moveoperation. As shown, 1 is the base of the ment of the pivotal member 4 under the influ-

V-shaped groove 3, the grooves of the two the operator may during the pouring of frame members being in alignment. 4 is a molten metal through the gate 9 into the pivotal member or platform upon which is mold cavity 8 gradually and continuously so fixedly secured the base 5 of the mold 6. swing the pivotal member 4 to thereby tilt This pivotal member is provided at its ends the mold by applying foot pressure upon with the aligned gudgeons 7, which engage in the lever 13. As a result, air within the the grooves 3 and support the pivotal mem-mold cavity may be completely displaced by ber upon the frame members of the base. the molten metal and escape through the at The mold 6, as illustrated in the present restricted passages 11, the annular passage

annular passage 10 which encircles the mold upon said base, including a member movable

lever upon said base, and means connected to 100

said lever and movable member for actuating the latter from the former.

3. In a stand for supporting a mold, the combination of a base, a mold supporting pivotal member upon said base, a pivotal lever upon said base, and means between said pivotal member and lever for actuating the former from the latter.

4. In a stand for supporting a mold, the 10 combination of a base, a mold supporting member pivotally mounted upon said base, means between said pivotal member and base for resiliently holding said pivotal member in a predetermined position relative to said base, a pivotal lever upon said base, and means between said pivotal member and lever for swinging the former from the latter.

5. In a stand for supporting a mold, the combination of a base, a mold supporting 20 member mounted for tilting movement on said base, yieldable means for normally maintaining said member in a predetermined position and resisting movement thereof, and means for tilting said member against the re-25 sistance of said first named means during the pouring operation.

6. In a stand for supporting a mold, the combination of a base, a mold supporting member mounted for tilting movement on 30 said base, means for normally maintaining said member in a predetermined position and resisting movement thereof, and means for tilting said member against the resistance of said first named means, including a foot 35 operated lever pivoted on said base.

7. In a stand for supporting a mold, the combination of a base, a mold supporting member mounted for tilting movement on said base, resilient means for normally maintaining said member in a predetermined position and resisting movement thereof, and means for tilting said member against the resistance of said first named means.

8. In a stand for supporting a mold, the 45 combination of a base, a mold supporting member mounted for tilting movement on şaid base, a spring for normally maintaining said member in a predetermined position and resisting movement thereof, and means for 56 tilting said member against the tension of said spring.

9. In a stand for supporting a mold, the combination of a base, a mold supporting member pivoted intermediate its ends upon 55 said base, and yieldable means at one side of said pivot for resisting movement of said supporting member and means at the opposite side of said pivot for moving said supporting member against the resistance of said first co named means during the pouring operation.

10. In a stand for supporting a mold, the combination of a base, a mold supporting member pivoted intermediate its ends upon said base, a spring at one side of said pivot 65 for resisting movement of said supporting

member, and means at the opposite side of said pivot including a lever pivoted to said base for moving said supporting member

against the tension of said spring.

11. In a stand for supporting a mold, the combination of a base, a tiltable mold supporting member upon said base, and means providing for the gradual and continuous tilting of the mold during the pouring operation including an actuator for said mold support- 75 ing member.

12. In a stand for supporting a mold, the combination of a base, a tiltable mold supporting member upon said base, means for normally maintaining said member in a predetermined position and resisting movement thereof, and manually operable means for tilting said member against the resistance of said first mentioned means.

In testimony whereof we affix our signa- 85

tures.

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