A. R. McCANN.

COMBINED DRIP CUP AND WIPER.

APPLICATION FILED SEPT. 25, 1917.

1,258,129. Patented Mar. 5, 1918.

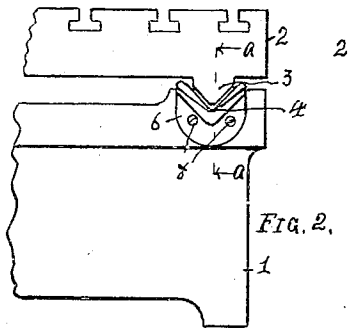


FIG. 2.

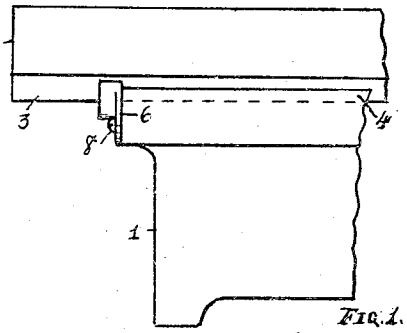


FIG. 1.

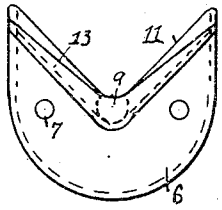


FIG. 4.

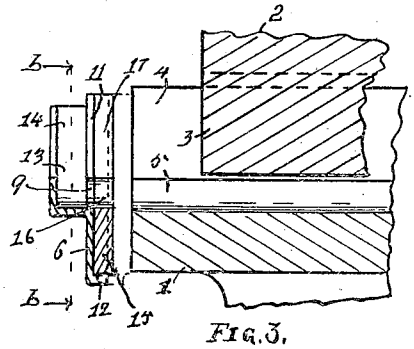


FIG. 3.

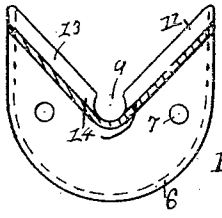


FIG. 5.

Witnesses,

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UNITED STATES PATENT OFFICE.

ALFRED R. McCANN, OF HAMILTON, OHIO, ASSIGNOR TO THE HAMILTON MACHINE TOOL COMPANY, OF HAMILTON, OHIO, A CORPORATION OF OHIO.

COMBINED DRIP-CUP AND WIPER.

1,258,129. Specification of Letters Patent. **Patented Mar. 5, 1918.**

Application filed September 25, 1917. Serial No. 193,120.

To all whom it may concern:

Be it known that I, ALFRED R. McCANN, a citizen of the United States, residing at Hamilton, Ohio, have invented a new and useful Improvement in Combined Drip-Cups and Wipers, of which the following is a specification.

My invention relates to combined drip cups and wipers of the class adapted to the use of the reciprocating members of machine tools or for other suitable purposes, and the objects of my improvements are to provide means for removably securing a double acting wiper on one of two relatively reciprocating members for removing the excess of oil or dirt from the other member; to provide a removable drip cup clamp for the wiper adapted to receive the excess oil and return it to its receptacle to be used again; and to provide simple and durable construction for securing facility of operation and efficiency of action. These objects may be attained together with others to be incorporated in the claims, in the following described manner as illustrated in the accompanying drawings, in which:—

Figures 1 and 2 are side and end elevations respectively of portions of the bed and of the table of a metal working planer provided with my improvements; Fig. 3 a vertical section on the line *a—a* of Fig. 2; Fig. 4 a front elevation of the drip cup and clamp; and Fig. 5 a transverse vertical section thereof through the cup and on the line *b—b* of Fig. 3.

In the drawings, 1 represents portions of the bed of a metal working planer, 2 portions of the table, 3 the male member of the shears formed thereon, 4 the coöperating female member of the shears formed on the bed, and 5 the oil channel or receptacle formed in the bed in communication with the shears, all being constructed and arranged in the ordinary manner.

The drip cup and clamp consists of a semi-circular metal plate 6 formed with the bolt holes 7 for the insertion of the clamping bolts 8, the central discharge opening 9 and with the angular or V-shaped notch 11 in its top edge for the reciprocating movement therethrough of the male member of the shears. It is also formed with the flange 12 which projects rearwardly from the bottom and sides of its edge and with the drip cup 13 on its face. Said cup consists of the downwardly converging open conduits or troughs 14 parallel with and below the respective edges of the notch 11 and which terminate in communication with the central discharge opening 9 through the plate. The wiper consists of a thick sheet 15 of felt, leather or other suitable elastic or yielding material formed to fit partially within the flange 12 and against the rear face of the plate, with the central opening 16 in registration with the opening 9 and with the angular notch 17 having its edges terminate just above the edges of the notch 11 in the plate for frictionally engaging with the slanting walls of the reciprocating table or male member of the shears.

In operation, the wiper may be removably secured on the end of the stationary bed shear member under the drip cup plate by means of the clamping bolts as shown in Figs. 1 and 2. During the outward movement of the table the wiper will remove the excess of oil from the table member of the shears that it may flow directly into the oil channel or receptacle in the bed.

During the return movement of the table the wiper serves to remove any further accumulation of oil and particularly of dust or dirt from the movable member of the shears that it may gravitate into the drip cup and thence flow through the central opening in the plate and the wiper into the oil channel or receptacle in the bed.

In this manner the oil is prevented from wasting by being carried beyond the bed by the table shears to drop upon and soil the floor and any accumulation of dust or dirt may be removed from said member of the shears in its return movement for preventing injury to its faces of contact with its coöperative member.

Having fully described my improvements, what I claim as my invention and desire to secure by Letters Patent of the United States is:—

1. As a new article of manufacture, a metal plate formed with a discharge opening therethrough, and with an angular notch in its edge, and a drip cup on its face in communication with the opening, for the purpose specified.

2. As a new article of manufacture, a metal plate adapted to be removably secured to a fixed plane surface and formed with a central discharge opening, with a V-shaped

notch in its top edge, and with downwardly converging open oil channels on its face below the edges of the notch and in communication with the discharge opening.

3. In combination with a wiper for a member of the shears of a metal working planer, of a metal clamping plate therefor adapted to be removably secured to the end of the coöperating member of the shears and formed with a notch in its top edge, a drip cup on its face thereunder and with an opening therethrough from the cup.

4. In combination, a metal clamping plate for wiping material formed with a discharge opening therethrough, an angular notch in its top edge and a drip cup on its face under the notch and in communication with the opening, of a wiper consisting of a sheet of yielding material of like configuration with the plate and formed with an opening therethrough adapted to register with the opening in the plate.

ALFRED R. McCANN.

Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."