

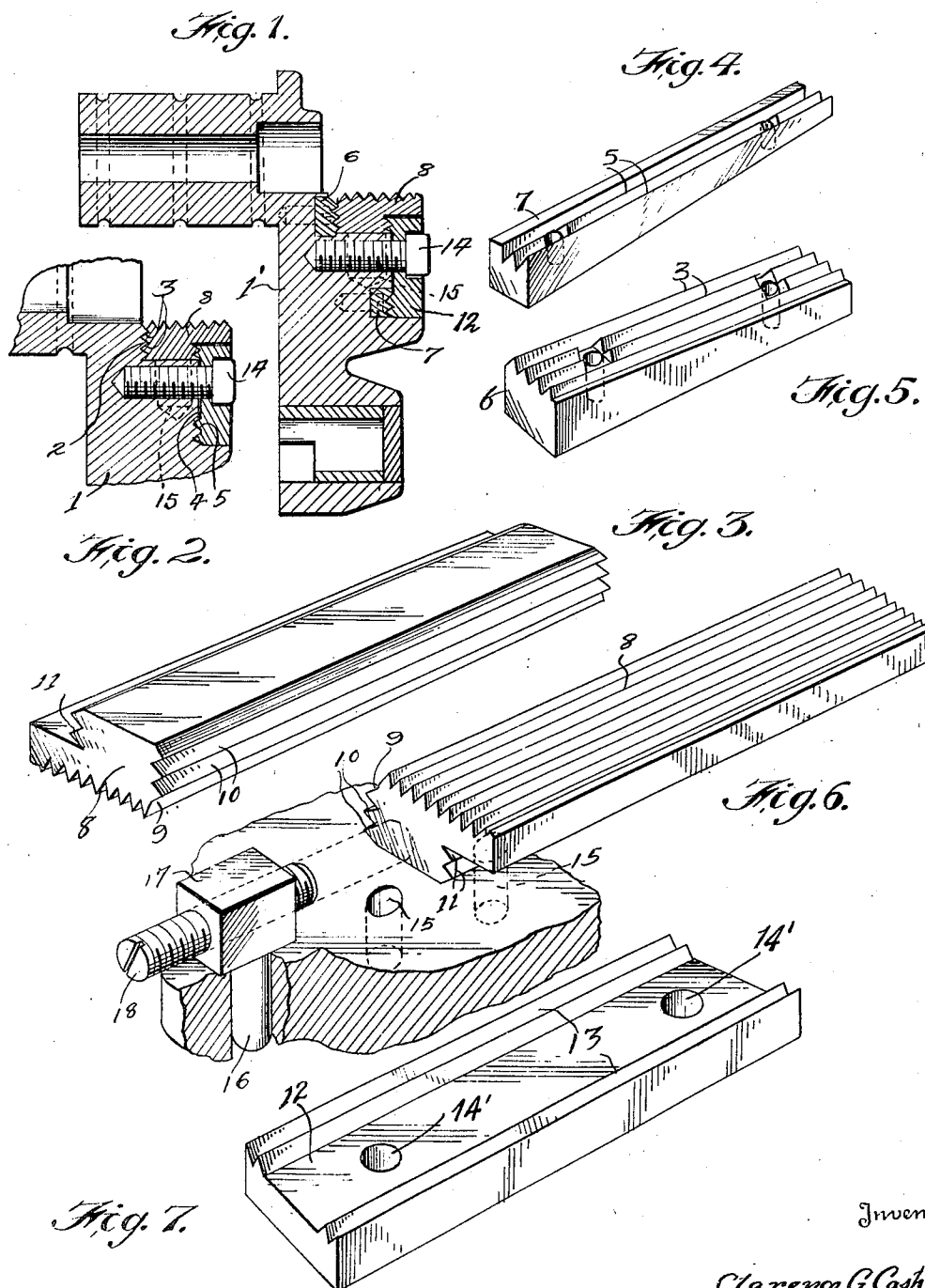
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C. G. CASHMAN

CHASER HOLDER

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By

UNITED STATES PATENT OFFICE.

CLARENCE G. CASHMAN, OF WAYNESBORO, PENNSYLVANIA, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO LANDIS MACHINE COMPANY, OF WAYNESBORO, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

CHASER HOLDER.

Application filed February 21, 1920. Serial No. 360,464.

To all whom it may concern:

Be it known that I, CLARENCE G. CASHMAN, a citizen of the United States, residing at Waynesboro, in the county of Franklin and State of Pennsylvania, have invented certain new and useful Improvements in Chaser Holders, of which the following is a specification.

My invention relates to improvements in chaser holders and particularly to details of construction thereof.

The chaser holders now in use are provided with beveled or dovetailed locating channels on the chasers to seat upon angular or dovetail channels on the holders, and the chasers also are provided with clamping shoulders or dovetails adapted to be engaged by one edge of a clamp or lock bar, the other edge of which engages in a clamp angle or lock bar channel formed in the chaser holder. This construction is such that great pressure is necessary on the clamp or lock bar to hold the chaser from lateral movement, due to the small amount of frictional contact furnished by the locking elements.

It is one of the objects of my invention to simplify the locking of the chaser so that a minimum of pressure is necessary on the locking bar to maintain the chaser in an immovable position.

In carrying out this part of my invention, I increase the frictional contacting surfaces of the chaser and lock bar by forming a series of longitudinally extending serrations thereon which fit into corresponding serrations cut in a parallel plane on the chaser holder or block.

A further object of my invention is to improve the construction of the chaser adjusting means. The disadvantage of the present type is that after the chaser has become worn and is ground off and is comparatively short the screw has moved along into the screw way so far that the head is not exposed and it is necessary to use a screw driver to make adjustments, and also renders it necessary in changing from a short chaser to a long one, to retract the screw through all of the distance it has traversed, which obviously takes a great deal of time and trouble.

In carrying out this part of my invention

I provide a screw carrying stop or block mounted upon a spindle adapted to enter one of a series of openings or holes in the path of travel of the chaser. The end of the screw bearing on the rear end of the chaser, and large adjustments being made by advancing the stop or block from one hole to another.

In the accompanying drawings forming a part of this specification,

Figure 1, is a vertical section through a chaser holder showing the serrated faces and, in dotted lines, the position of the holes for the spindle of the screw carrying stop,

Figure 2, is a vertical section partially broken away showing the application of my invention to a conventional form of chaser holder,

Figure 3, is a perspective view of a chaser formed with serrations in accordance with my invention,

Figures 4 and 5, are perspective views of forms of lead angle fill blocks or plates with serrations formed in the locking faces thereof,

Figure 6, is an enlarged fragmentary perspective view of a chaser holder and chaser, showing the relation of the screw carrying stop and spindle to the chaser and to the spindle receiving holes in the chaser holder, and

Figure 7, is a perspective view of a lock bar formed in accordance with my invention.

The chaser holder 1 (Fig. 2), has a chaser seating face 2 formed with longitudinal serrations 3, and a lock bar channel 4, with similar serrations 5, extending longitudinally thereon.

These serrations 3 and 5, can also be applied to lead angle fill plates 6 and 7 of chasers holder 1' (Fig. 1), as shown in Figure 1, which form the subject matter of a separate application filed of even date herewith.

The chaser 8 is made with a seating face 9, having longitudinally extending serrations 10, formed to interlock with the serrations 3 on the chaser seating face, the outwardly projecting serrations of one face extending into the inwardly formed serrations of the other.

The chasers are provided with lock bar

contact faces having serrations 11 formed thereon. This lock bar contact face takes the place of the dovetail angle or shoulder now in use. Lock bar 12 has serrated engaging edges 13, which engage and interlock with the serrations 11 and 5. The lock bar is clamped in position by the usual screws 14 which engage openings 14 in the lock bar 12.

It will be obvious that the use of serrations in place of smooth faces insures much greater frictional contact and that the chasers will be held immovable by comparatively slight pressure on the locking bar.

At convenient intervals in the chaser holder and perpendicular to the main body of the chaser are formed the holes or openings 15, to receive the spindle 16 of the screw carrying stop or block 17, in which the screw 18 is rotatably mounted. One end of the screw bears against the rear end of the chaser for longitudinal adjustment thereof.

In making adjustments on the chaser, as when inserting a long one in place of a short one, the stop or block is lifted up and removed from the hole in which it is supported and moved to any other hole that it may be convenient to use. Obviously this precludes the necessity for retracting or advancing the screw to any great extent.

I claim:

1. In a cutter head, a chaser holder having openings, a chaser and means for holding said chaser in position on said chaser holder, and means supported in one of said holes or openings and capable of removal and insertion in other of said openings for longitudinal adjustment of said chaser.

2. In a cutter head, a chaser holder having openings, a chaser and means for holding the chaser in position on said holder, and means cooperating with the openings in said holder for longitudinal adjustment of said chaser.

3. In a cutter head, a chaser holder having openings, a chaser and means for holding the chaser in position on said holder, and a screw carrying block and a spindle

adapted to cooperate with said openings for longitudinal adjustment of said chaser.

4. In a cutter head, a chaser holder having openings, a chaser having cutting serrations on one face and clamping means for holding the chaser in position on said holder, the contacting surfaces of the chaser, chaser holder and clamping means being formed with serrations parallel to the first mentioned serrations so that a maximum frictional engagement is had and the chaser is held against lateral movement, and means cooperating with the openings in said holder for longitudinal adjustment of said chaser.

5. A chaser holder having a chaser channel and a lock bar channel, lead angle fill plates in said channels, a chaser in the chaser channel having a longitudinal shoulder on the back thereof, a lock bar in the lock bar channel engaging said shoulder and one fill plate, the contacting surfaces of the fill plates, chaser, lock bar and shoulder having longitudinally extending serrations, and means to secure the lock bar thereby clamping the chaser.

6. A lead angle fill plate for adjusting chasers in their holders, comprising a block having two opposite faces at a small angle to each other, one of said faces being formed with longitudinally extending serrations.

7. A chaser holder comprising, a chaser formed with serrations on one face thereof, a lead angle fill plate having two opposite faces inclined to each other one of which is serrated to provide a seat for the serrated face of the chaser, substantially as set forth.

8. A chaser holder comprising, a chaser, a lead angle fill plate secured in said chaser holder and formed with two opposite faces inclined to each other, a lock bar engaging the chaser and fill plate, the contacting portion of the lock bar and fill plate being formed with interengaging serrations, substantially as set forth.

In testimony whereof I affix my signature.

CLARENCE G. CASHMAN.