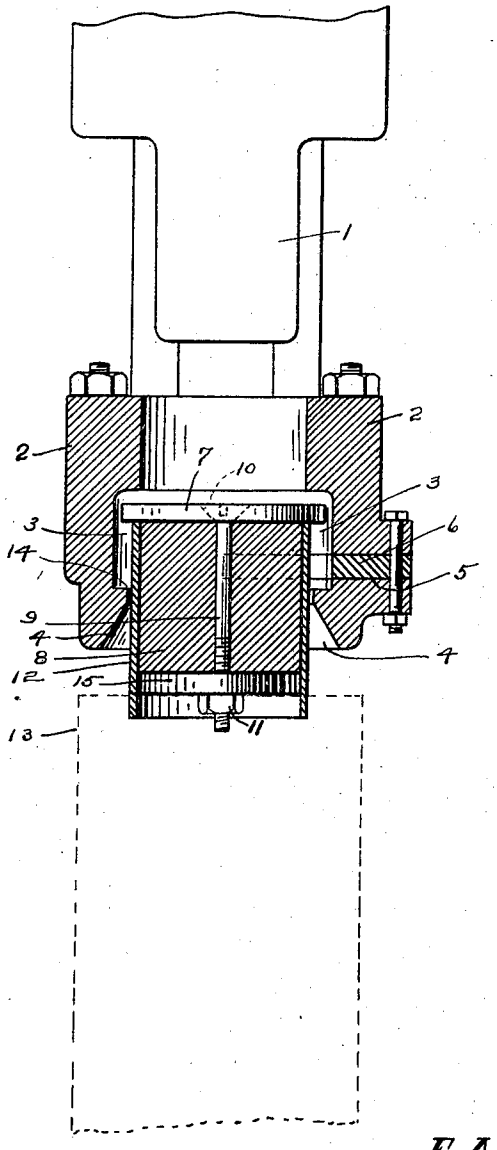
May 27, 1924. 1,495,968

E. A. WHITNEY

PILE DRIVER CHASER BLOCK

Filed July 28, 1922



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PILE-DRIVER CHASER BLOCK.

Application filed July 28, 1922. Serial No. 578,185.

To all whom it may concern:

Be it known that I, EVERITT A. WHITNEY, a citizen of the United States, and a resident of Sioux City, in the county of Woodbury and State of Iowa, have invented certain new and useful Improvements in Pile-Driver Chaser Blocks, of which the following is a specification.

My invention relates to pile hammers, and more particularly the bases thereof, and aims to provide improved means which obviates chamfering the heads of the piles.

A further object of the invention is the production of means carried by the base adapted to coact with the ram to drive the piles completely into the ground without the interposition between the pile and base of a temporary block or pile.

Still another object of the invention is the production of improved means coacting with the base of the hammer which obviates the necessity of chamfering the heads of the piles to enter the base, and prevents splitting of the piles.

Furthermore, the invention provides a device of this character which is very inexpensive in production, readily applied to those pile hammers now in most common use, and thoroughly efficient and dependable in operation.

These and other objects and advantages I successfully attain in the embodiment hereinafter described, defined in the appended claims and illustrated in the accompanying drawing, which is a vertical section of the device of my invention as applied to the base of a pile hammer.

Referring, now, to the illustration, the device illustrated is the so-called Warrington pile hammer including the ram, 1, and carrying a McDermid base consisting of the cylinder, 2, which, it will be understood, follows the pile and receives the ram, 1, which heretofore has coacted with a plate, 7, within the enlarged intermediate bore, 3, of the base, the lower end of the cylinder, 2, being internally beveled, as at 4, to receive the head of the pile. 5 is the usual arcuate slot in the cylinder, 2, through which the said plate is removably inserted. The slot is normally closed by the door, 6. To the under side of the plate, 7, I secure a cylindrical hardwood block, 8, preferably by means of a bolt, 9, projecting through the axis of the block, the plate 7, and a plate 15, below the block and having its head, 10, countersunk in the plate, 7, and having threaded on its lower end a nut, 11, screwed in firm engagement with the plate 15. Onto the block, 8, I drive a short pipe, 12, which extends into engagement with the under side of the plate, 7, and projects a distance below the block and plate 15. The said block and pipe are of such a length that at all times they project below the base to engage the head of the pile, indicated at 13, the pipe and block being less in diameter than the head of the pile. It will be clear that by the use of this device it is unnecessary to chamfer the head of the pile as the latter does not enter the base, and the device will not split the pile as when a blow is delivered by the ram upon the plate, 7, the projecting end of the cylinder, 12, and nut, 11, enter the top of the pile and the block plate, 15, engages the top surface thereof. As the block, 8, is compressed with use the nut is occasionally tightened to hold it firmly to the plate, 7. Obviously, when the base is raised precipitation of the chaser block is prevented by virtue of the engagement between the projecting edge of the plate, 7, and the shoulders, 14, in the base afforded by the recess, 3.

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

1. In a pile hammer, the combination with an internally shouldered base of a chaser block comprising a plate movable vertically within the base and engageable with the shoulders thereof, and a block depending from the plate below the base and having a downwardly projecting rim.

2. In a pile hammer the combination with an internally shouldered base of a chaser block comprising a plate movable vertically within the base and engageable with the shoulders thereof, a wood block secured to and depending from the plate a distance below the base, and a pipe encompassing the block and projecting from the lower end thereof.

3. In a pile hammer the combination with an internally shouldered base of a chaser block comprising a plate movable vertically within the base and engageable with the shoulders thereof, a cylindrical hardwood block below the plate, a bolt projecting coaxially with and through the block and plate and having a head countersunk in the plate, and a nut threaded onto the lower end of

the bolt to secure the block to the plate, and a pipe encompassing the block and projecting from the lower end thereof.

4. In a pile hammer the combination with an internally shouldered base of a chaser block comprising a plate movable vertically within the base and engageable with the shoulders thereof, a cylindrical hardwood block below the plate, a second plate on the under side of the block, a bolt projecting coaxially with and through the block and plates and having its head countersunk in the said first plate, and a nut threaded onto the bolt into engagement with said second plate, and a pipe encompassing the block and projecting below the end thereof.

5. In a pile hammer, a chaser block embodying a cylindrical jacket, a head plate, and a body enclosed by the jacket and secured to the head plate, the lower end portion of the jacket being projected below the body and of lesser diameter than the heads of the piles.

6. In a pile hammer, a chaser block embodying a cylindrical jacket, a head plate thereon, a body within the jacket, a bolt extended axially through the plate and body, and a nut on the lower end of the bolt, the lower end portion of the jacket being projected below the body and of lesser diameter than the heads of the piles.

In testimony whereof, I have hereunto set my hand this 22nd day of July, 1922.

EVERITT A. WHITNEY.