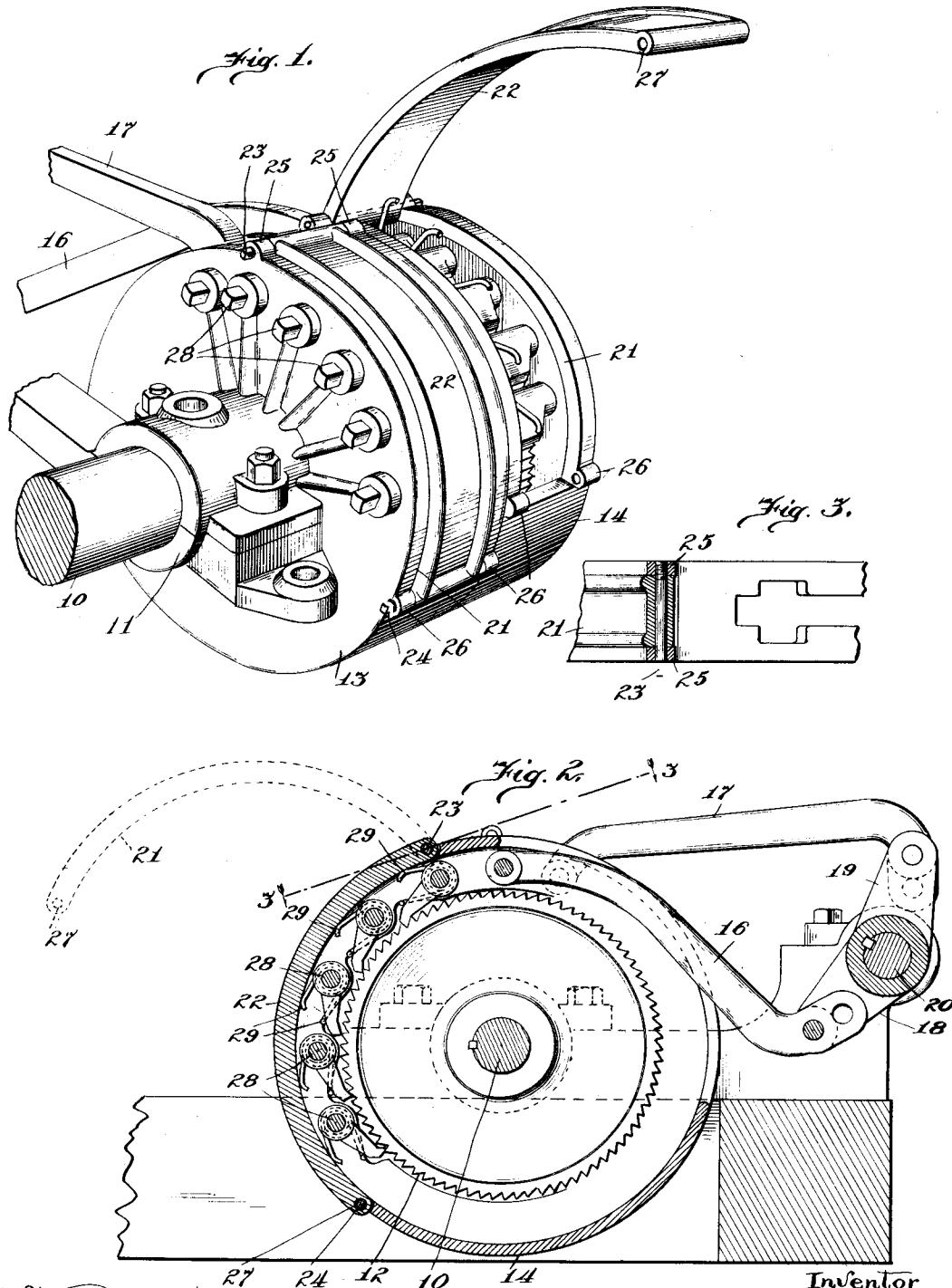


T. DISCH.
PAWL CARRIER.
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UNITED STATES PATENT OFFICE.

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PAWL-CARRIER.

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To all whom it may concern:

Be it known that I, THEODORE DISCH, a citizen of the United States, and resident of Menominee, county of Menominee, and State of Michigan, have invented certain new and useful Improvements in Pawl-Carriers, of which the following is a specification, and which are illustrated in the accompanying drawings, forming a part thereof.

The invention relates to carriers for pawls coöperating with ratchet wheels, and is especially adapted for use in connection with devices of this character employed on the set-works of saw-mills.

The objects of the invention are to provide means for gaining access to the interior of a closed pawl carrying case for the purpose of adjustment and repairs, and to provide improved means for assembling the parts when spring pawls are employed.

The invention is fully hereinafter described, and is illustrated in the accompanying drawings, in which—

Figure 1 is a detail perspective of the device as mounted on the set shaft of a saw-mill carriage; Fig. 2 is a sectional view on a plane perpendicular to the shaft and passing through the carrier case; and Fig. 3 is a detail section on the line 3—3 of Fig. 2.

A portion of a set shaft of a saw-mill carriage is shown at 10, and as being journaled in boxes, one of which is shown at 11. Two ratchet wheels or a single broad faced ratchet wheel may be used, as indicated at 12, and are keyed upon the shaft 10 and inclosed by a pair of casings or pawl carriers 13, 14, which are oscillatably mounted upon the shaft 10, cover the remoter radial faces of the ratchet wheel or wheels and their peripheral faces, their adjacent faces approximately meeting.

The pawl carriers or casings 13, 14, are oscillatably mounted on the shaft 10, and are controlled by a pair of links 16, 17, pivotally attached, respectively, to each of the casings and to oppositely directed crank

arms 18, 19, carried by a shaft 20, to which oscillatable movement is communicated by any suitable mechanism and which in saw-mill practice is commonly designated the rocker shaft.

The peripheral wall of each of the pawl carrying casings is apertured, as shown at 21, and a cover plate 22 is fitted over this opening to snugly close it, and is held in place by means of pins, as 23, 24, setting through lugs 25, 26, on the casing and through an eye 27 in the cover plate. The means of attachment are the same at both ends of the plate, and either of the attaching pins will serve as a pivot, so that by removing the other the plate may be swung open.

The pawls 15 are pivotally mounted on studs 28 setting inwardly through the outer radial wall of the casing, and each is advanced to the ratchet wheel by means of a spring 29 coiled about the stud, one end bearing upon the nose of the pawl and the other projecting outwardly and bearing against the cover plate 22 when the latter is in place.

Heretofore it has been necessary, in order to gain access to the ratchet wheels and the pawls, to place the journal boxes 11 a sufficient distance from the ratchet wheels to permit the pawl-carrying casings to be moved laterally away from the wheels. It has also been necessary to provide an anchorage for the outer ends of the pawl springs, and the assembling of the parts, particularly the placing of the pawls and their springs in proper position, has been a tedious and laborious operation.

The present invention makes it possible to locate the set shaft bearings close to the ratchet mechanism; to insert or set the pawls without difficulty, through the casing apertures 21; to place the necessary tension upon the springs by merely fixing the cover plates in position; and to gain access to the ratchet mechanism for the purpose of re-

pairs, by merely removing one of the plate retaining pins and swinging the plate back upon the other as a pivot.

I claim as my invention—

- 5 In a pawl carrier, in combination, a casing having a radial and a peripheral wall, the latter being apertured, a plate removably attached to the peripheral wall and covering the aperture, an inwardly projecting stud

carried by the radial wall, a pawl pivotally 10 mounted upon the stud, a spring looped around the stud, one of its ends bearing upon the nose of the pawl and the other reacting against the plate.

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