

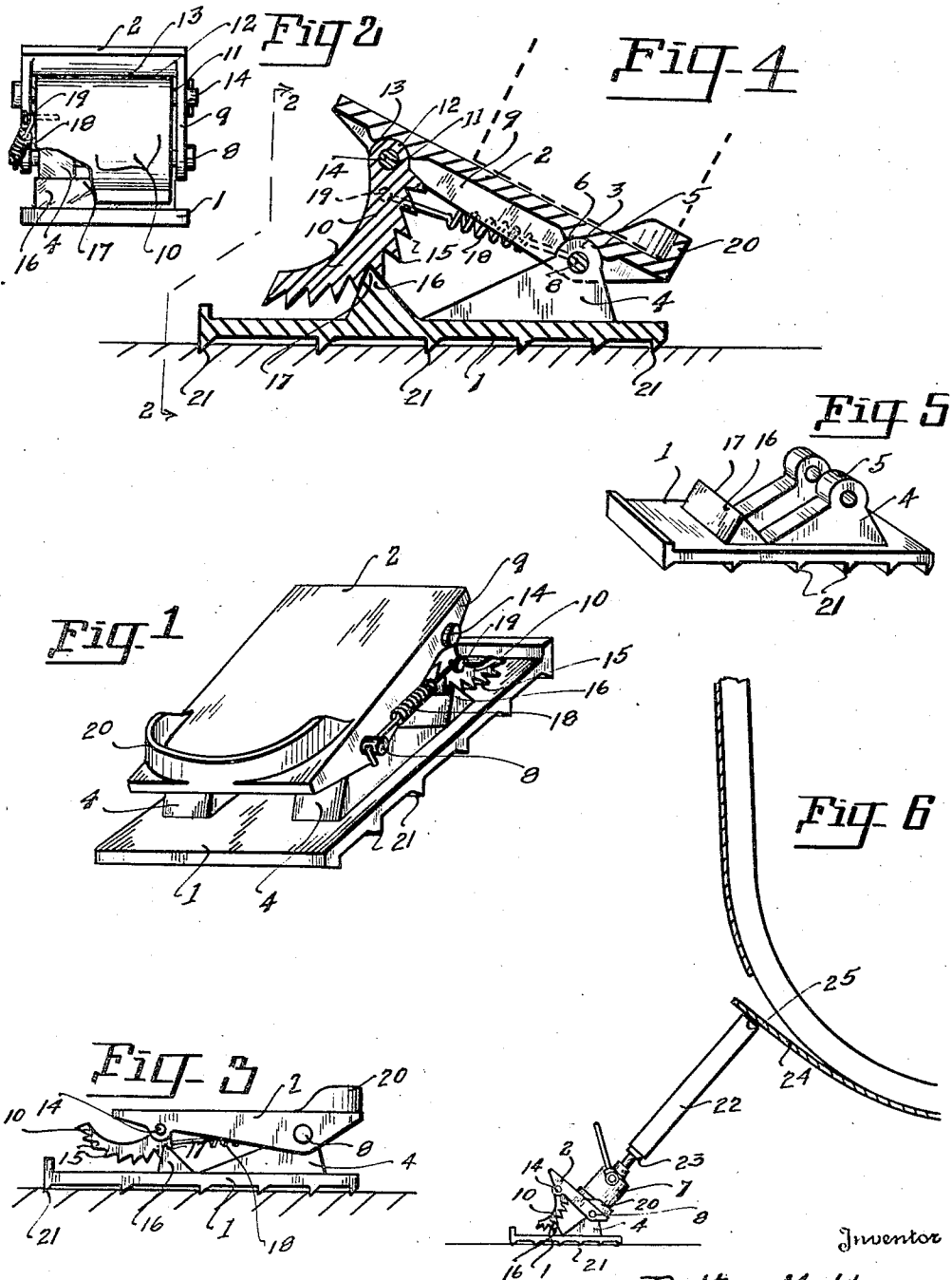
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ADJUSTABLE BASE SUPPORT FOR JACKS

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ADJUSTABLE BASE SUPPORT FOR JACKS

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3 Claims. (Cl. 248—346)

This invention relates to adjustable base supports for jacks, and the primary object of the invention is to provide a base for supporting jacks at any desired angle and particularly relating to jacks used in the construction of ships, where plates are being forced into place against the ribs of the ship's hull.

A further object of the invention is to provide a base for a jack that will not slide away from the work while in operation.

A still further object of the invention is a base for jacks that will hold the jack in a fixed position until the pressure is applied to the jack.

And another object of the invention is to provide an adjustable base for jacks that can be easily transported and adjusted to the desired angle required, without having to use any other accessory for anchoring the base of the jack to a fixed position relative to the work, and maintaining the proper angle of the jack in such a manner as to eliminate any danger of the jack slipping and injuring the workmen.

These and other incidental objects will be apparent in the drawing, specification and claims.

Referring to the drawing:

Figure 1 is a perspective assembled view of my new and improved adjustable base for jacks.

Figure 2 is an end view, taken on line 2—2 of Figure 4, looking in the direction indicated.

Figure 3 is a side elevation of the jack base in its lowered and level position.

Figure 4 is a side sectional view of the jack base illustrated at an angle.

Figure 5 is a perspective view of the base of the jack base.

Figure 6 is an illustration of my new and improved jack base, having a jack mounted thereon and applying pressure to a metal plate on the side of the hull of a ship under construction.

In the drawing:

My new and improved base for jacks consist of a base plate 1, having a sub-base 2 pivotally mounted thereabove at 3 to the base 1. Supports 4 extend upwardly from the base 1 for supporting the sub-base 2 at 3. The upper surface 5 of the supports 4 directly engage the under surface of the sub-base at 6, providing a direct contact between the sub-base 2 and the supports 4 of the base 1, thereby providing greater strength to resist the downward pressure applied to the surface of the sub-base 2 by the jack 7.

The base and the sub-base are connected together at 3 by the cross pin 8, which is journaled within the upper ends of the supports 4 and through the downwardly extending flanges 9 of

the sub-base 2 and fastened therein by any suitable means. The angle of the sub-base 2 is maintained and supported by the ratchet 10, which is pivotally mounted to the underneath side of the sub-base 2 at 11, having its upper surface 12 directly contacting the under surface 13 of the sub-base, providing added strength against applied force. The ratchet 10 is maintained in this position by the cross pin 14, which is journaled in the downwardly extending flange 9 of the sub-base 2.

Ratchet teeth 15 are formed on the under side of the ratchet 10 and engage the upwardly extending support 16 at 17. The support 16 is in the form of a tooth-like projection, is part of the base 1 and extends upwardly therefrom. A spring 18, having one of its ends secured to the ratchet 10 at 19, and its opposite end to the cross pin 8, is for the purpose of maintaining the teeth 15 of the ratchet 10 in contact with the support 16. The ratchet 10 supports and maintains a predetermined angle for the sub-base 2, while supporting the jack. An upwardly extending rim 20 maintains the jack 7 upon the upper surface of the sub-base 2, best shown in Figure 6. Suitable dogs 21 prevent the base of the jack support from slipping while in use, and may be of any suitable type or form.

In the operation of my new and improved adjustable jack base, the jack is mounted upon the base, shown in dotted position in Figure 4, and in full line position in Figure 6, the greater part of the weight of the jack being located above the uprights 4, although the ratchet 10 receives part of the load. After the jack has been placed on my new and improved adjustable base support, it is applied to the work, as for instance in Figure 6 where the strut 22 is mounted on top of the jack at 23 and to the plate 24 at 25. The sub-base 2 is then properly lined up by the ratchet 10 so that the face of the jack will be in a straight line.

It can be readily seen that from the construction illustrated how simple a matter it is to align the jack relative to the work. Heretofore, it has been the practice of adjusting the angle of the jack by shims and blocks, which, when the pressure was applied, the jacks often slipped out injuring the workmen, as well as consuming considerable time in aligning the jack assembly.

I do not wish to be limited to the exact mechanical construction illustrated, as other forms of mechanical equivalents may be used still coming within the scope of the invention.

What is claimed as new is:

1. An adjustable support for vehicle and like jacks, comprising a base, a sub-base swingingly connected at one end to the base and free at the opposite end, the sub-base providing a relatively broad face to receive and support a vehicle jack, and cooperating elements on the adjacent faces of the base and sub-base and underlying the free end of the sub-base to fix the sub-base in selected angular relation to the base, said cooperating elements including a tooth-like projection on the upper surface of the base, and a serrated bar pivotally connected to the under surface of the sub-base in position to interlock with the projection and hold the sub-base in any one of a plurality of different positions relative to the base.

2. A construction as defined in claim 1, wherein the cooperating elements included a single tooth-like projection rising from the upper surface of the base, and a plurality of serrated bars pivotally supported by the undersurface of the

sub-base in position to interlock with the projection in any one of a plurality of different positions of the sub-base relative to the base.

3. An adjustable jack support, including a base formed with a transverse rib near one end, uprights extending from the base and having an extended length cooperating with the base, the upper ends of the uprights being rounded and formed with pivot openings concentric with the rounded portion, a sub-base to receive the jack, the sub-base having depending portions of complementary form with and adapted to bear on the rounded ends of uprights to provide a rocking support for the sub-base from the base, a pivot pin uniting the pivot openings in the uprights and the sub-base to prevent disconnection of the parts, toothed dogs pivotally connected to the sub-base, and a spring connecting the dogs and pivot of the sub-base to hold the dogs in cooperation with the rib.

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