

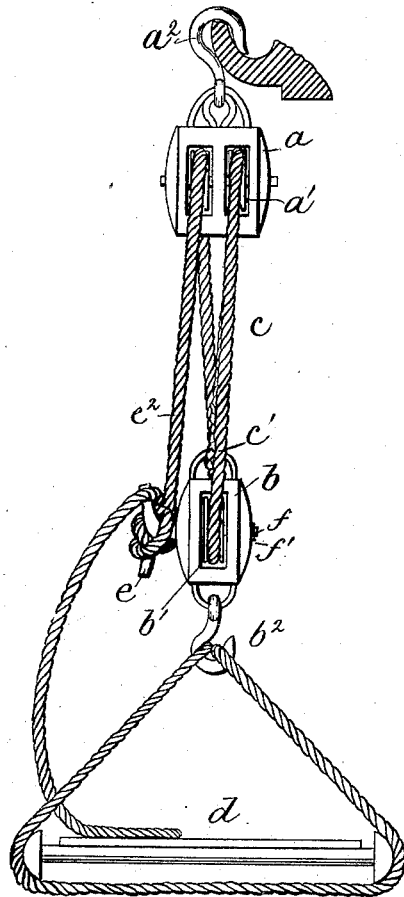
(No Model.)

J. VIDA.

TACKLE.

No. 342,056.

Patented May 18, 1886.



Witnesses,
J. J. Maloney
H. P. Bates

Inventor.
Joseph Vida,
by *Jos P. Livermore*
Att'y.

UNITED STATES PATENT OFFICE.

JOSEPH VIDA, OF WEST MEDFORD, MASSACHUSETTS.

TACKLE.

SPECIFICATION forming part of Letters Patent No. 342,056, dated May 18, 1886.

Application filed August 13, 1885. Serial No. 174,336. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH VIDA, of West Medford, county of Middlesex, State of Massachusetts, have invented an Improvement in Tackle, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawing representing like parts.

My invention relates to a tackle specially adapted for hoisting stagings or for similar purposes, in which the lower or running block of the tackle is accessible to the operator, the object of the invention being to provide convenient and efficient means for making fast the running end of the rope.

The tackle comprises the usual upper or standing block, which is supported at some point overhead, and a lower or running block provided with a hook or other means to engage the weight to be raised, which is shown in this instance as a staging such as commonly used by painters when engaged in painting the side of a house. It is necessary, when the staging has been raised by the persons upon it to the desired level, to make fast the running or hoisting end of the rope, and this has usually been done by bending it about the supporting-hook of the lower block in such a manner that the taut portion of the rope coming from the upper block bears upon and binds the slack portion. This method requires a certain amount of play for the running end of the rope between the upper block and the point where it is made fast, rendering it difficult to retain the lower block raised clear up into contact with the upper block, as is sometimes desirable when there is need of having the staging as high as possible, and also renders it difficult to obtain the necessary slack for casting off when the staging is to be lowered from such highest point. In order to remove these objections, the lower block is, in accordance with the present invention, provided with a belaying pin or cleat, preferably fastened upon the side of the block, being, as shown in this instance, made integral with the axle-pin upon which the sheave of the lower block turns, which is a desirable construction, as it affords great strength to the belaying-cleat and block.

The drawing shows in end elevation a tackle provided with a belaying pin or cleat

in accordance with this invention, and a staging supported from the said tackle.

The tackle comprises an upper or standing block, *a*, (shown as having two sheaves, *a'*), and a hook, *a''*, or other means for attaching it to some point overhead, and a lower or running block, *b*, having a single sheave, and a rope or fall, *c*, having its standing end *c'* made fast to the lower block, *b*, from which it runs over one of the sheaves in the upper block, and thence over the sheave of the lower block and to the other sheave in the upper block, with its running or hoisting portion *c''* extending down toward the lower block in the usual manner, so that by drawing on the running end of the fall the lower block and weight sustained thereby (shown in this instance as a staging, *d*, composed of a ladder and foot-board thereon, such as commonly employed by painters) may be raised toward the upper block, or may be lowered by slackening the running end of the rope.

It is necessary, when the lower block and staging are raised to the proper height, to make fast the running end *c''* of the rope, in order to retain the lower block at that level, and this has commonly been done by bending the rope about the hook *b''*, so that the taut portion extending to the upper block bears upon the slack portion or free end *c'* of the rope. In order to make fast in this manner, or to cast off, it is necessary to slacken the portion *c''* of the rope coming from the upper block, so that it is difficult to raise the block *b* clear up to the upper block, *a*, and retain it in this position, as it will tend to settle a little as the rope *c''* tightens after being bent about the hook *b''*, and if the rope is made fast with the block *b* clear up in contact with the block *a* it is very difficult to obtain sufficient slack in the rope *c'* to relieve its pressure on the free portion of the rope, so as to cast off or lower the lower block and staging. In order to overcome these objections, the lower block is, in accordance with the present invention, provided with a belaying pin or cleat, *e*, toward which the rope *c''* may be drawn perfectly taut, and then made fast by winding or braiding, as it were, several turns of the free end of the rope around the end of the pin or cleat *e*, in the usual manner. By this means the rope *c'* may be drawn until the block *b* is

brought close up to the block *a*, and then made fast without any subsequent relaxation or running back of the rope *c*², and when it is desired to cast off the rope in order to lower the staging it is not necessary to pull upon the rope *c*² or slacken the lower end of the same at all, but the free or slack portion *c*³ of the rope merely has to be unwound from the ends of the belaying-pin until the rope is sufficiently freed to run under the upward strain or pull on the rope *c*², the operator merely paying out the slack until the staging is lowered as far as need be, when the running of the rope may be immediately checked, and may be made fast by again winding it around the belaying-pin.

As shown in this instance, the belaying pin or cleat *e* is made integral with or rigidly connected with the axle-pin *f*, upon which the sheave *b'* of the lower block runs, the said axle-pin being secured to the block at the opposite end from that connected with the belaying-pin in any suitable manner, preferable by a nut, *f'*, sunk or embedded in the face of the block.

It is obvious that this invention is applicable to any tackle in which a block is accessible to the operator controlling the running end of the rope.

I claim—

1. As an improved article of manufacture, a tackle for stagings or similar purposes, comprising an upper or standing block stationary while the tackle is in operation, a lower block, and rope or fall co-operating with the said blocks, the running end of which is adjacent to the lower block, combined with a belaying pin or cleat connected with the lower block, upon which the running portion of the rope may be made fast, substantially as and for the purpose set forth.

2. The combination, with a pulley-block comprising a sheave and axle-pin therefor, of a belaying pin or cleat connected with the said axle-pin, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH ^{his} X VIDA.
mark.

Witnesses:

JOSEPH P. LIVERMORE,
H. P. BATES.