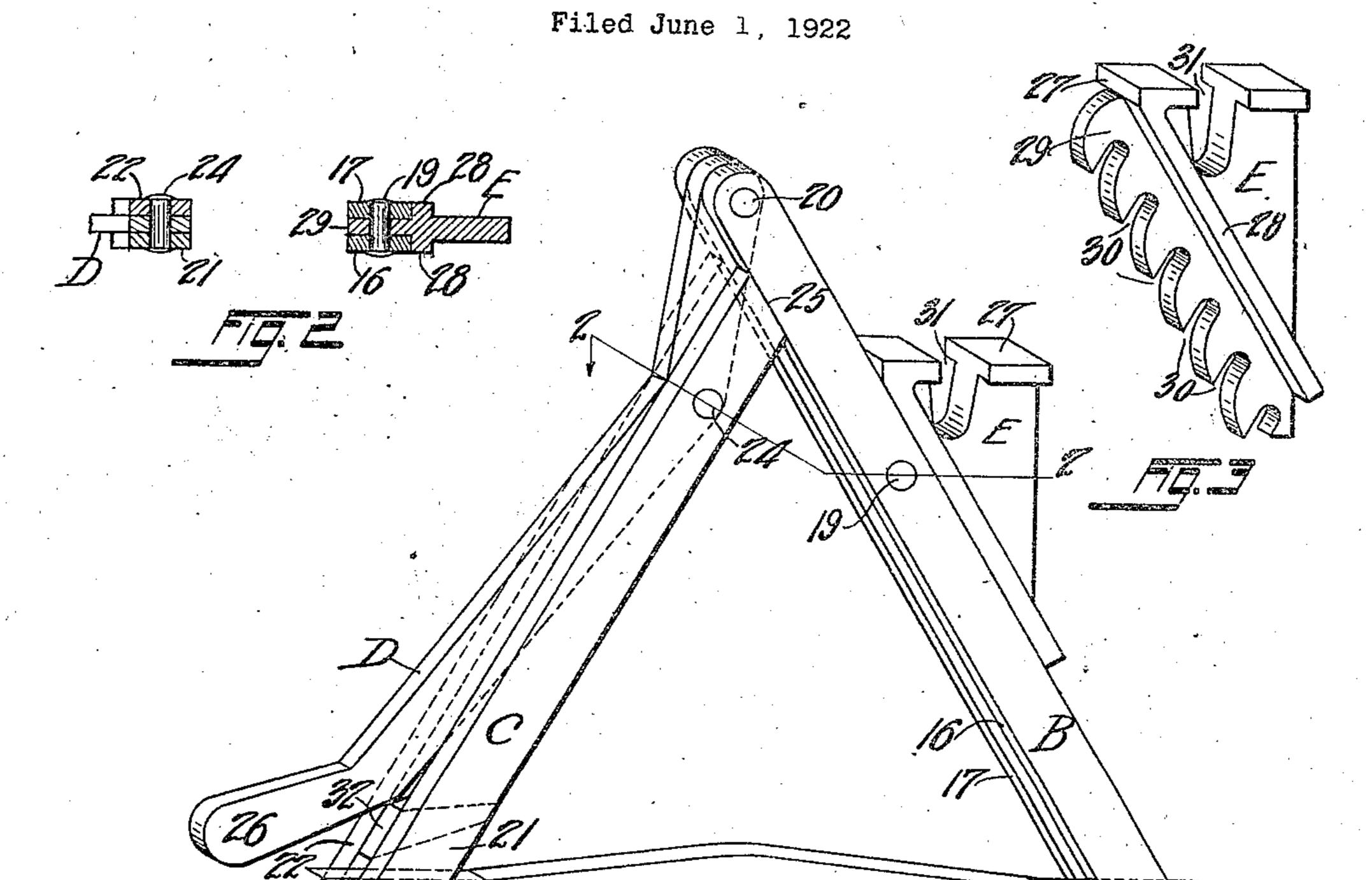
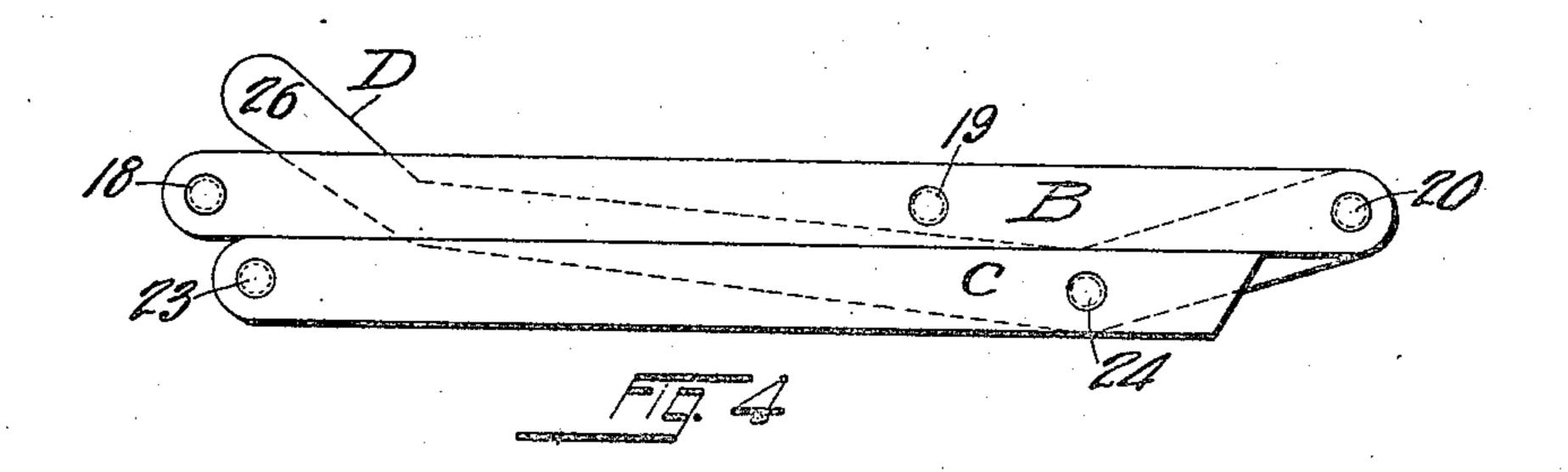
## F. E. SHEPHERD

LIFTING APPARATUS





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## UNITED STATES PATENT OFFICE.

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LIFTING APPARATUS.

Application filed June 1, 1922. Serial No. 565,252.

To all whom it may concern:

a citizen of the United States, residing at 5 State of Ohio, have invented a new and use-riveted over on the outside of the bars. ful Improvement in Lifting Apparatus, of which the following is a specification.

My invention relates to apparatus for lift-

ing or raising objects or articles.

The object of my invention is an efficient, simple, quick acting, easily adaptable, and

easily operatable lifting apparatus.

I attain this object by the mechanism illustrated in the accompanying drawings in 15 which Fig. 1 is a general perspective view of a lifting apparatus well adapted for lifting vehicles; Fig. 2 is a section on line 2-2 of Fig. 1; Fig. 3 is a perspective view of the adjustable bracket; and Fig. 4 is a side view 20 showing the legs and the operating lever folded up.

lar parts throughout the views.

The lifting apparatus shown in the ac-25 companying drawings consists, generally speaking, of the base A, the legs B and C, the operating lever D, and the bracket E.

The base A is formed with the horizontal flange 10 and with the upright flange 11 30 which has the inclined slots 12 and 13 in the

ends thereof.

The middle portion 14 of this base A is bent upward for the purpose of permitting the apparatus to rest securely on the ground 35 which has an uneven and hard surface and also permitting this apparatus to rest securely on and not sink into soft ground.

In case of such hard surfaces, the curved portion 14 clears the elevations which may 40 be thereon and permits the flat portions 15

to rest on this surface.

In case of such soft ground, the flat portions 15 rest on this ground and may sink in slightly if, however, the ground is very 45 soft, the flat portions 15 may sink in deeper and not present sufficient bearing surface to which case the curved flanges on the portion 14 presents additional bearing surface to the 50 ground and thereby not only prevents the apparatus from sinking in too deep, but also forms an engagement with the ground which prevents slippage of the apparatus.

The leg B is made of two bars 16 and 55 17 which are spaced apart and held in such spaced position by the pins 18 and 19 which

are riveted over on the outside of the bars. Be it known that I, Frank E. Shepherd, The inclined slot 13 being sufficiently wide to admit the pin 18. On the upper end, the North Kingsville, county Ashtabula, and bars 16 and 17 have the pin 20 which is 60

> The leg C is made of two bars 21 and 22 which are spaced apart and held in such spaced position by the pins 23 and 24 which are riveted over on the outside of these bars. 65 The inclined slot 12 being sufficiently wide to admit the pin 23. The upper ends of the bars 21 and 22 are inclined for the purpose of providing an abutment 25 for the bars 16 and 17 when a load is resting on the ap- 70 paratus and when the apparatus is in uppermost position as seen in Fig. 1.

> An additional spacer 32 is provided between the bars 21 and 22, similar spacers may be introduced at other points if found 75

necessary or convenient.

The operating lever D is fulcrumed on the Similar reference characters refer to simi- pin 24 and on the pin 20, has the handle 26, and is disposed between the bars 21 and 22. of the leg C.

> The bracket E, shown in detail in Fig. 3, has the flat horizontal portion 27 upon which the article or object to be lifted may rest; and also has the inclined flange portions 28 which rest upon the edges of the bars 16 and 85 17, and also has the portion 29 which is adapted to enter between the bars 16 and 17 and which has the openings 30 adapted to slip over and engage the pin 19. The slot 31 being provided to clear truss rods on the bot- 90 tom of vehicle axles or other obstructions.

> This apparatus may be closed into compact form by swivelling the leg B over the top and down over the lever D and against the leg C as seen in Fig. 4. The base A, as 95 well as the bracket E being detached there-

from as separate units.

The use and operation of this apparatus is as follows: When it is desired to use this apparatus, beginning with the compact form 100 shown in Fig. 4, swing the leg B over the upper end of the leg C until both legs form this ground to prevent excessive sinking, in a sort of a triangle, then set the base A on the ground and slide the pin 18 into the slot 13 and the pin 23 into the slot 12; then raise 105 the end 26 of the lever D up as far as it will go which movement causes the lower end of the leg C to pivot on the pin 23 and causes the upper end to move outward and upward, and the upper ends of both legs being con- 110 nected by the lever D, also causes the lower end of the leg B to pivot on the pin 18 and

causes the upper end of the leg B to move other of said inclined slots, a bracket adapted

inward and downward.

5 under the object to be lifted, using for this said legs. purpose whichever of the slots 30 is nearest 4. A lifting apparatus comprising a base

ent slot is used).

10 ward; this movement causes the upper end slots and also having a support pin inter-15 pin 23). When the end 26 is so pushed having a series of slots each adapted to enthere is no need for a further lock since the load itself acts against this abutment and locks the apparatus, the legs can not disengage from the base as long as this load is on the apparatus since the slots 12 and 13 are inclined.

When it is desired to lower the object, a 25 forceful pull upward on the end 26 of the lever D causes the upper end of the leg C to move outward and release the lock whereupon the object can be lowered by means of

the lever D.

Having described my invention, I claim:—

1. A lifting apparatus comprising a base, a leg pivoted to one end of said base, a second leg pivoted to the other end of said base, and the upper end thereof adapted to abut vided with a pivot pin in one of its ends and the first said leg when extended, means on adapted to engage one of said inclined slots one of said legs to engage an article to be and with a second pivot pin in its other end lifted, and an operating lever pivoted to and and with a support pin intermediate its ends, 95 connecting the other ends of both of said 40 legs.

provided with an inclined slot in each end; of said inclined slots and with a spacing a leg having a pivot pin in one of its ends and adapted to engage one of said inclined 45 slots, a second leg having a pivot pin in one of its ends and adapted to engage the other of said inclined slots, means on the first said leg to engage an article to be lifted, and an

operating lever pivoted to and connecting 50 the other ends of both of said legs.

3. A lifting apparatus comprising a base provided with an inclined slot in each end and having its middle portion curved upward, a leg having a pivot pin on one of its ends and adapted to engage one of said in- is adapted to engage said support pin. clined slots, a second leg having a pivot pin on one of its ends and adapted to engage the

to be attached to the first said leg in different Now place the bracket E on the leg B to positions, and an operating lever pivoted to 60 such a height that the face 27 is close up and connecting the other ends of both of

to the pin 19 (for different heights a differ- provided with an inclined slot in each end, a leg having a pivot pin in one of its ends 65 Now push the end 26 of the lever D down- and adapted to engage one of said inclined of the leg B, and consequently the bracket E, mediate its ends, a second leg having a pivot to move outward and upward (pivot on pin pin in one of its ends and adapted to engage 18) and also causes the upper end of the leg the other of said inclined slots, a bracket 70 C to move inward and downward (pivot on adapted to engage an article to be lifted and down to the end of its travel, the object is gage said support pin, and an operating lifted and the abutment 25 is established, lever pivoted to and connecting the other ends of both of said legs.

5. A lifting apparatus comprising a base, a leg mounted on said base and composed of two bars spaced apart and provided with a support pin, a bracket adapted to engage an article to be lifted and having a flange por- 80 tion adapted to rest against the edges of said two bars and having a flange portion adapted to enter the space between said two bars and provided with slots each of which is adapted to engage said support pin, and 85 means for operating said leg to lift or lower

said article.

6. A lifting apparatus comprising a base having an inclined slot in each end and having its middle portion curved upward, a leg 90 composed of two bars spaced apart and proa second leg composed of two bars spaced apart and provided with a pivot pin in one 2. A lifting apparatus comprising a base of its ends and adapted to engage the other block between these two bars and with a sec- 100 ond pivot pin near its other end and with an abutment face on its other end, an operating lever fulcrumed on both of said second pivot pins and disposed substantially between said two bars of said legs, and a bracket adapted 105 to engage an article to be lifted and having a flange portion adapted to rest against the edges of said two bars of the first said leg and having a flange portion adapted to enter the space between said bars of the first said 110 leg and provided with slots each of which

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