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**FR-A- 395 269**  
**FR-A- 399 695**  
**FR-E- 47 553**

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## Description

The present invention relates to a collapsible trestle of the kind which includes a seating part supported on two legs.

The object of the invention is to provide a novel and improved trestle, and to this end the invention is characterized mainly in that in a trestle of aforesaid kind the end of one leg remote from the seating part is so attached to a base plate, intended for abutment with the foundation surface on which the trestle stands, as to be pivotable about a first axis which is substantially parallel with the plane of the base plate, while the end of the other leg remote from the seating part is detachably connectable to a fitting on the base plate located at a distance from the location of attachment of said one leg; and in that the seating part is rotatable relative to the base plate about a second axis which extends substantially parallel or coincident with the longitudinal axis of said one leg. This arrangement enables the trestle to be collapsed readily and quickly onto the base plate in an advantageous manner, by releasing the end of the said other leg distal from the seating part, turning the seating part through 90° about said second axis, and by swinging said one leg towards the bottom plate about the first axis.

Further preferred characteristic features of the invention and other advantages afforded thereby are defined in the following claims and will be evident from the following description of an exemplary embodiment illustrated in the accompanying drawings, in which

Figure 1 is an end view of a trestle according to the invention when raised;

Figure 2 is a side view of the trestle illustrated in Figure 1;

Figure 3 is a plan view of the trestle illustrated in Figures 1 and 2, when collapsed;

Figure 4 is a plan view of the same trestle when raised; and

Figure 5 is a sectional view of a modified form of the seating part illustrated in Figure 1—4, this section corresponding to the section indicated by the section line V—V in Figure 4.

In the Figures, in which equivalent or substantially equivalent elements are identified by the same reference, there is illustrated a collapsible trestle which comprises a base plate 10, first and second legs 11 and 12, and a substantially V-shaped seating part 13. The end of the first leg 11 distal from the seating part 13 is fitted in a substantially U-shaped fitting 14 carried by the plate 10. More specifically, the distal end of the first leg 11 has a cylindrical lower part 15 which extends through and is journaled for rotation in a diametrical bore formed in a shaft 16 which in turn is journaled for rotation in the opposing side-pieces of the fitting 14. The lower end of the second leg 12 is detachably connected to a further fitting 17, which is also of substantially U-shape configuration and which is carried by the base plate 10 and spaced from the first-mentioned fitting 14. There can be used for this connection of

the leg 12, for example, a connecting pin 19 which passes through holes 1 in the side-pieces of the U-shaped fitting 17 and a hole 18 in the lower end of the leg 12, as illustrated in Figures 1 and 4. In the raised position of the trestle, the legs 11, 12 are supported by the upstanding side-pieces of respective U-shaped fitting 14, 17. When wishing to collapse the trestle, the pin 19 is withdrawn so as to release the lower end of the leg 12. The leg 11 is then turned in a clock-wise direction, as seen in Figures 1, 2 and 4, through about 90°, and the leg 11 swung downwardly about the shaft 16 onto the base plate. In its downwardly swung position the leg 11 is received in the fitting 14 and is held detachably therein by means of the pin 19, which to this end passes through holes 20 and 21 provided in the upstanding side-pieces of the fitting 14 and in the leg 11 respectively. As will be evident from a comparison between Figures 1 and 3, the end of the leg 12 adjacent the seating part 13 is advantageously mounted for pivotal movement about a shaft (not shown) which, when the trestle is raised, is substantially parallel with the shaft 16, so that the leg 12 can be swung towards the leg 11, for example in parallelism therewith, so as to reduce the external measurements of the collapsed trestle (Figure 3). The base plate 10 also carries a fitting 22 which receives the free end part of the leg 12 when the trestle is collapsed.

The seating part 13 can be swung to a limited extent about an axis indicated at 23 in Figure 1, this axis being substantially parallel with the plane of the base plate 10 in the raised position of the trestle. The extent to which the seating part can be swung is limited by a stop means 24 provided on the leg 11, this stop means being located so as to permit the seating part to be swung to selected positions between the limit positions shown in full and broken lines respectively in Figure 2.

When using the trestle to support an elongated object 25, such as tubing for example (Figure 5), one end of the tubing is seated in the V-shaped recess of the seating part 13 while, if the other part of the tubing is rested against the ground, the seating part 13 is swung about the axis 23 until said seating part is inclined to the ground at the same angle as the object 25. The object 25 is secured by means of a securing chain 26, shown only in Figure 5, one end of which is attached to a block 27 which is movable in the part 13, and the other end of which is arranged to be passed over a nose-shaped portion of the part 13. The block 27 is movable in a groove or channel 29 which merges with an opening 30 passing through the seating part, seen towards the centre of said seating part. The mutually opposite sides 31 (Figure 4) of the groove or channel 29 form guide surfaces for the block 27. The reference 32 identifies a screw or spindle which is in screw-thread engagement with a screw-threaded hole in a portion 33 of the seating part 13 bridging the groove or channel 29. The spindle 32 can be turned by means of a handle 34 pivotably

mounted thereon and is reduced in diameter at the end thereof distal from the handle 34, to form a cylindrical pin 35. Screwed onto this latter end of the spindle 32 is a cylindrical nut 6 which is provided with a screw thread along solely a part of its length. The block 27 is placed on the pin 35 together with a square washer-plate 37, both the block 27 and the plate 37 having a through-passing hole corresponding to the diameter of the pin 35. The plate 37 and the block 27 are held onto the pin 35 by means of a plate 38 and a bolt 39 screwed into the pin. When the spindle 32 is rotated in one direction or the other, the block 27 is either pressed downwards by the nut 36 acting on the plate 37 or is drawn upwards by the plate 38 acting on the under-surface of the block. The block 27 and the plate 37 are guided against the groove sides 31 during this up or down movement, so that the block and plate will not rotate together with the spindle 32.

The invention is not limited to the aforescribed embodiment illustrated in the drawings, but various modifications can be made within the scope of the invention as defined in the claims.

#### Claims

1. A collapsible trestle comprising a seating part (13) supported on two legs (11, 12), characterized in that the end of one leg (11) remote from the seating part (13) is so attached to a base plate (10), intended for abutment with the foundation surface on which the trestle stands, as to be pivotable about a first axis (16) which is substantially parallel with the plane of the base plate, while the end of the other leg (12) remote from the seating part (13) is detachably connectable to a fitting (17) on the base plate located at a distance from the location of attachment of said one leg; and in that the seating part (13) is rotatable relative to the base plate about a second axis which extends substantially parallel or coincident with the longitudinal axis of said one leg (11).

2. A collapsible trestle according to Claim 1, characterized in that the end of said other leg (12) adjacent the seating part (13) is arranged for pivotal movement about a third axis which, when the trestle is in a raised position, extends parallel with the said first axis (16).

3. A collapsible trestle according to Claim 1 or 2, characterized in that the seating part (13) can be swung to a limited extent about a fourth axis (23), which in the raised position of the trestle is substantially parallel with the base plate (10) of the trestle.

4. A collapsible trestle according to Claims 1—3, characterized in that the base plate (10) has provided thereon fittings (17, 21) effective to detachably hold the legs (11, 12) relative to the base plate in the collapsed state of the trestle.

5. A collapsible trestle according to any one of Claims 1—4, characterized in that the seating part (13) is substantially V-shaped; and in that a chain (26) intended for securing an object (25) to the

seating part (13) of the trestle can be brought detachably over a nose-like portion (28) formed on one side-piece of the V-shaped seating part, and is connected at one end to a block (27) which is non-rotatably guided in a groove or channel (29) which is formed along the other side-piece of the V-shaped seating part (13) and which is open towards the inner side of said sidepiece, said block (27) being carried by and movable along the groove or channel (29) by means of a spindle (32), which is in screw-threaded engagement with a tapped hole in the seating part (13) and extends in a longitudinal direction of said groove or channel, said block being rotatable but axially immovable in relation to said spindle.

#### Patentansprüche

1. Zusammenlegbarer Bock mit einem Auflage-  
teil (13), das von zwei Beinen (11, 12) getragen  
wird, dadurch gekennzeichnet, daß das von dem  
Auflage-  
teil (13) entfernt angeordnete Ende des  
einen Beins (11); an einer Basisplatte (10), die zur  
Auflage auf der Oberfläche eines Fundaments,  
auf dem der Bock aufgestellt ist, vorgesehen ist,  
so angebracht ist, daß sie um eine erste Achse  
(16), die im wesentlichen parallel zur Ebene der  
Basisplatte angeordnet ist, schwenkbar ist, wäh-  
rend das von dem Auflage-  
teil (13) entfernt angeordnete Ende des anderen Beins (12) lösbar mit  
einer Halterung (17) verbunden ist, die auf der  
Basisplatte mit Abstand von der Befestigungs-  
stelle des einen Beins angeordnet ist, und daß das  
Auflage-  
teil (13) relativ zu der Basisplatte um eine  
zweite Achse drehbar ist, die im wesentlichen  
parallel oder in gleicher Linie zur Längsachse des  
einen Beins (11) verläuft.

2. Zusammenlegbarer Bock nach Anspruch 1,  
dadurch gekennzeichnet, daß das dem Auflage-  
teil (13) benachbarte Ende des anderen Beins (12) zur  
Schwenkbewegung um eine dritte Achse ange-  
ordnet ist, die sich parallel zur ersten Achse (16)  
erstreckt, wenn der Bock sich in seiner aufrechten  
Lage befindet.

3. Zusammenlegbarer Bock nach Anspruch 1  
oder 2, dadurch gekennzeichnet, daß das Auflage-  
teil (13) über einen beschränkten Bereich um eine  
vierte Achse (23) schwenkbar ist, die bei aufrechter  
Lage des Bocks im wesentlichen parallel zur  
Basisplatte (10) des Bocks verläuft.

4. Zusammenlegbarer Bock nach einem der  
Ansprüche 1 bis 3, dadurch gekennzeichnet, daß  
auf der Basisplatte (10) Halterungen (17, 22) zur  
lösbaren Festlegung der Beine (11, 12) relativ zur  
Basisplatte im zusammengelegten Zustand des  
Bocks angeordnet sind.

5. Zusammenlegbarer Bock nach einem der  
Ansprüche 1 bis 4, dadurch gekennzeichnet, daß  
das Auflage-  
teil (13) im wesentlichen V-förmig  
ausgebildet ist und daß eine zur Festlegung eines  
Gegenstands (25) auf dem Auflage-  
teil (13) des  
Bocks vorgesehene Kette (26) über einen an  
einem Seitenstück des V-förmigen Auflage-  
teils  
ausgebildeten nasenförmigen Bereich (28)  
abnehmbar gebracht werden kann und an ihrem

einen Ende mit einem Block (27) verbunden ist, der nicht drehbar in einer Nut oder Rinne (29) geführt ist, die längs des anderen Seitenstücks des V-förmigen Auflageteils (13) ausgebildet und zur Innenseite dieses Seitenstücks hin geöffnet ist, wobei der Block (27) durch die Nut oder Rinne (29) gehalten und längs dieser mit Hilfe einer Spindel (32) bewegbar ist, die sich in einen Schraubengewinde-Eingriff mit einem Gewinde Loch in dem Auflageteil (13) befindet und sich in Längsrichtung der Nut oder Rinne erstreckt, und wobei der Block drehbar aber axial unbeweglich im Verhältnis zur Spindel ist.

#### Revendications

1. Un chevalet pliable comprenant une partie de support (13) portée par deux jambes (11, 12), caractérisé en ce que l'extrémité de l'une des jambes (11) qui se trouve loin de la partie de support (13) est reliée à la plaque de base (10), qui prend appui sur la surface de base sur laquelle le chevalet est posé, de telle manière qu'elle peut pivoter autour d'un premier axe (16) qui est sensiblement parallèle au plan de la plaque de base tandis que l'extrémité de l'autre jambe (12) qui se trouve loin de la partie de support (13) est reliée, de manière amovible, à un étrier (17) monté sur la plaque de base à une certaine distance de l'endroit où la première jambe est attachée et en ce que la partie de support (13) est montée de manière à pouvoir tourner, par rapport à la plaque de base, autour d'un deuxième axe qui est sensiblement parallèle à l'axe longitudinal de la première jambes (11) ou coïncide avec lui.

2. Chevalet pliable selon la revendication 1, caractérisé en ce que l'extrémité de la deuxième jambe (12) qui se trouve près de la partie de

support (13) est disposée de manière à pouvoir pivoter autour d'un troisième axe qui, lorsque le chevalet est en position debout, est parallèle au premier axe (16).

3. Chevalet pliable selon l'une des revendications 1 ou 2, caractérisé en ce que la partie de support (13) peut basculer d'une quantité limitée autour d'un quatrième axe (23) qui, lorsque le chevalet est en position debout, est sensiblement parallèle à la plaque de base (10) du chevalet.

4. Chevalet pliable selon l'une des revendications 1 à 3, caractérisé en ce que la plaque de base (10) comporte des étriers (17, 21) conçus pour maintenir, de manière amovible, les jambes (11, 12) par rapport à la plaque de base lorsque le chevalet est replié.

5. Chevalet pliable selon l'une des revendications 1 à 4, caractérisé en ce que la partie de support (13) a essentiellement une forme en V et en ce qu'une chaîne (26), destinée à fixer un objet (25) à la partie de support (13) du chevalet, peut être amenée, d'une manière amovible, à passer sur une partie en forme de bec (28) d'une pièce latérale de la partie de support en forme de V et est reliée à l'une de ses extrémités à un bloc (27) qui est guidé, sans possibilité de rotation, dans une rainure ou canal (29) réalisé le long de l'autre pièce latérale de la partie de support (13) en forme de V et ouvert du côté intérieur de cette pièce latérale, le bloc (27) étant porté, de manière à se déplacer le long de la rainure ou canal (29), par une broche (32) qui est engagée dans le filetage d'un trou ménagé dans la partie de support (13) et s'étend dans le sens de la longueur du canal ou gorge, le bloc en question pouvant tourner, sans se déplacer dans le sens axial, par rapport à la broche.

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Fig. 1

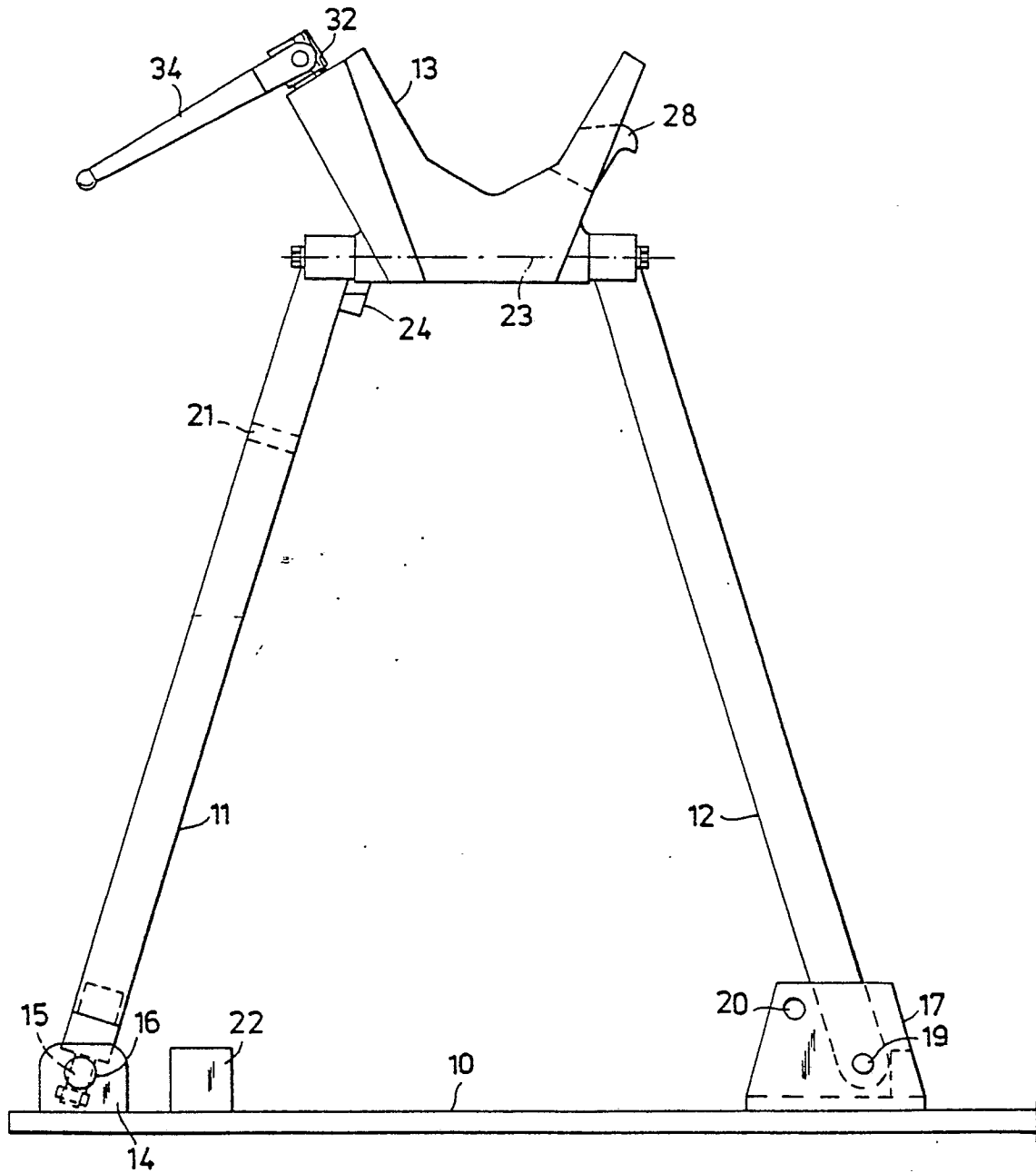


Fig. 2

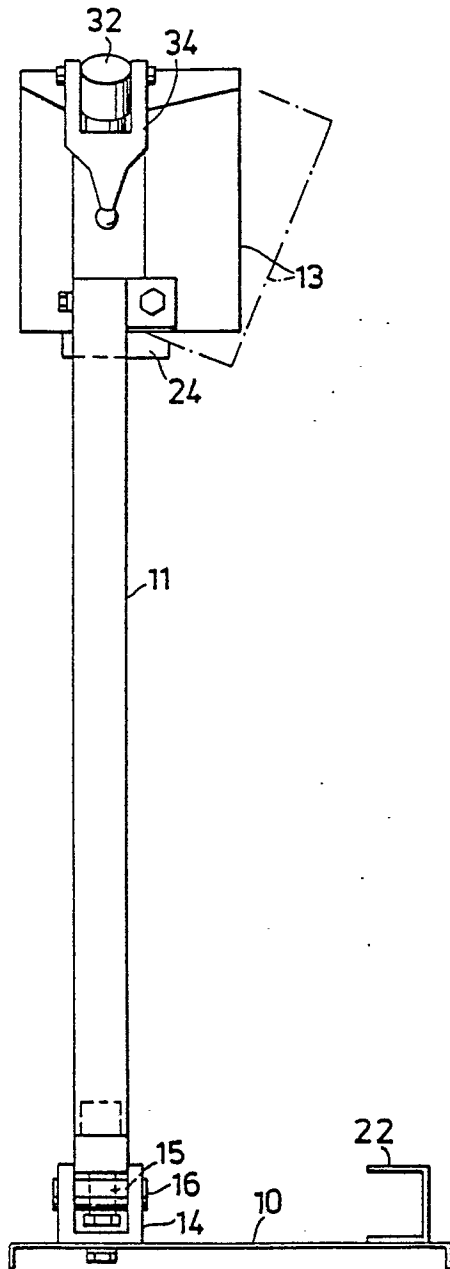


Fig. 3

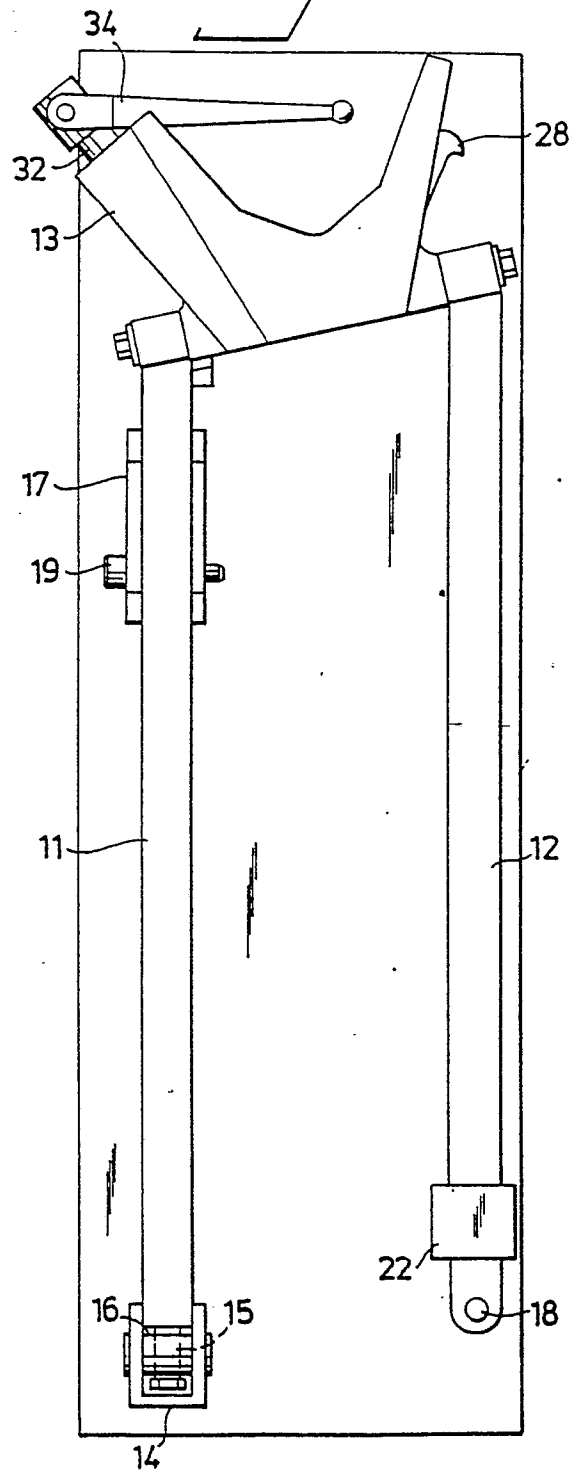


Fig. 4

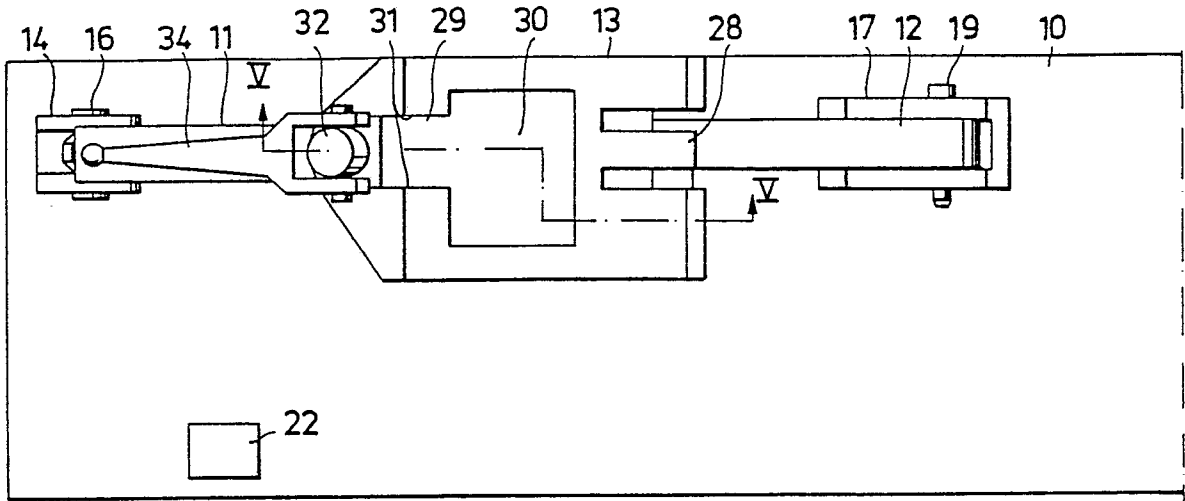


Fig. 5

