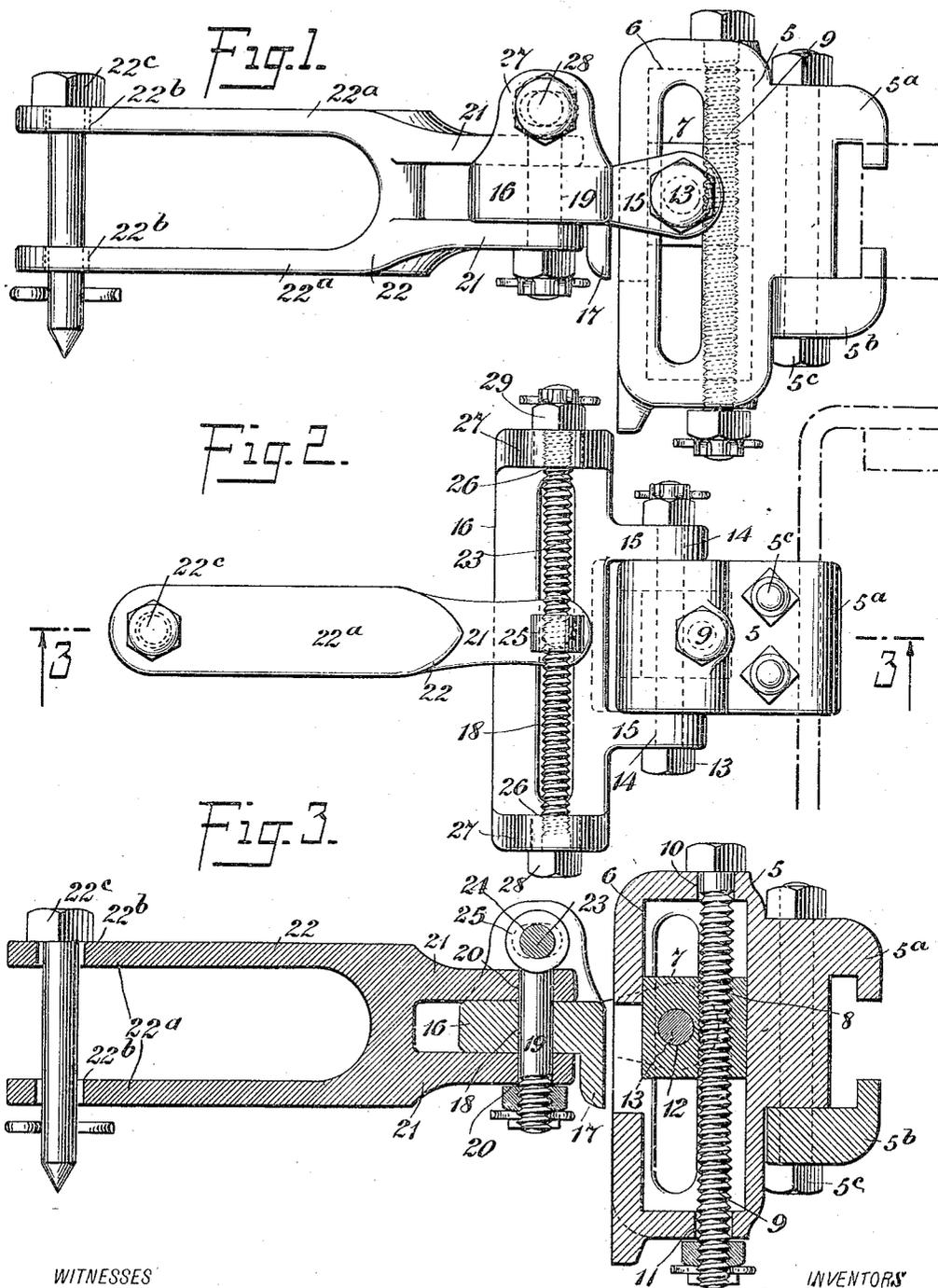


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COMBINATION CLEVIS.  
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Patented Jan. 5, 1915.



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# UNITED STATES PATENT OFFICE.

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## COMBINATION-CLEVIS.

1,124,028.

Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that we, ELI JONES, a resident of Luverne, in the county of Rock and State of Minnesota, and EDWIN J. OLSON, a resident of Valley Springs, in the county of Minnehaha and State of South Dakota, both citizens of the United States, have invented a new and Improved Combination-Clevis, of which the following is a full, clear, and exact description.

Our invention has for its object to provide a combination clevis having a head block which may be clamped to a plow frame or to a plow beam, a cross clevis being adjustably mounted on the head so that while the cross clevis is held horizontally, at all times it is possible to raise and lower the cross clevis by turning a screw which screw does not bear a draft strain. An evener clevis is pivoted to the cross clevis on a vertical axis and this evener clevis is movable horizontally on the cross clevis by turning a screw, which screw, like the screw which raises and lowers the cross clevis, does not stand any draft strain which would tend to injure the adjustability of the parts.

Additional objects of the invention will appear in the following specification in which the preferred form of our invention is disclosed.

In the drawings similar reference characters refer to similar parts, in all the views in which—

Figure 1 is a side elevation of our invention; Fig. 2 is a plan view of Fig. 1; and Fig. 3 is a sectional side elevation of our invention showing the construction in parts.

By referring to the drawings it will be seen that a head 5 is provided, this head 5 having a vertical guideway 6 in which is movably disposed a block 7, the block as best shown in Fig. 3 of the drawings, engaging the head 5 at the front of the vertical guideway 6. This block 7 has a vertically disposed threaded orifice 8 in which meshes a threaded bolt 9, the ends of the threaded bolt 9 being disposed in the bearings 10 and 11 at the top and the bottom of the heads 5 as best shown in Fig. 3 of the drawings. It will be understood that by turning the threaded bolt 9, the block 7 may be raised or may be lowered as desired. This block 7 not only has a vertical orifice 8 but it also has a horizontal orifice 12 in

which is disposed a bolt 13, the bolt 13 also being disposed in the openings 14 in the arms 15 of the cross clevis 16, the arms 15 being disposed at the sides of the head. With this construction the cross clevis 16 may be raised or may be lowered by rotating the bolt 9 which is connected with the cross clevis 16 by the block 7 and the bolt 13. The cross clevis 16 has a depending lip 17 for engaging the head 5 to hold the cross clevis 16 substantially in a horizontal position. In the cross clevis 16 there is a horizontal guideway 18 in which is disposed a vertical pin 19, the vertical pin 19 also being disposed through the orifices 20 in the arms 21 of the evener clevis 22, the arms 21 being disposed one at the top and one at the bottom of the cross clevis 16. In this way the evener clevis is mounted on the cross clevis 16 and is held horizontally, the cross clevis 16 being adapted to rotate on the pin 19 in order that the usefulness of the evener clevis may not be impaired. The evener clevis is moved laterally on the cross clevis 16 by means of the threaded bolt 23 which is disposed in a threaded orifice 24 in the head 25 of the pin 20 and also in the bearings 26 in the upwardly disposed flanges 27 at the ends of the cross clevis 16. The threaded bolt 23, like the threaded bolt 9, has a head 28 at one end, a nut 29 meshing with the thread at the other end so that all longitudinal movement of the threaded bolt 23 relatively to the cross clevis 16, will be prevented.

It will be seen that as the block 7 engages the head 5 at the front of the vertical guideway 6, all strain on the threaded bolt 9 is prevented, and in the same way, the engagement of the pin 19 at the front of the guideway 18, prevents any undue strain on the threaded bolt 23.

The head 5 has a bent arm 5<sup>a</sup> and a detachably bent arm 5<sup>b</sup>, by which the plow frame or the irons on a plow beam may be embraced, the detachably bent arm 5<sup>a</sup> being normally secured in position by the bolt 5<sup>c</sup>. The arms 22<sup>a</sup> of the evener clevis 22 have orifices 22<sup>b</sup> through which may be disposed a pin 22<sup>c</sup>.

Having thus described our invention we claim as new and desire to secure by Letters Patent:

1. In an article of the class described, a head having a guideway with bearings with

their axes disposed longitudinally of the guideway, a block for moving in the guideway and having a threaded orifice, and a second orifice, a screw meshing in the threaded orifice and disposed in the bearings, a cross clevis having two arms with openings, embracing the head, and with the openings registering with the second opening in the block, a bolt disposed in the openings in the arms and the second mentioned opening in the block, there being in the cross clevis a guideway and a bearing having its axis disposed longitudinally of the guideway, a pin disposed for moving in the last guideway and having a threaded orifice, a screw meshing in the threaded orifice in the pin and journaled in the bearing in the cross clevis, and an evener clevis mounted for rotating on the pin.

2. In an article of the class described, a head having a guideway with a bearing having its axis disposed longitudinally of the guideway, a block movable in the guideway and having a threaded orifice, and a second orifice, a screw meshing in the threaded orifice and disposed in the bearing, a cross clevis having an arm with an orifice registering with the second orifice in the block, a bolt disposed in the orifice in the arm and the second orifice in the block, there being in the cross clevis a guideway and a bearing having its axis disposed longitudinally of the guideway, a pin disposed for moving in the last guideway and having a threaded orifice, a screw meshing in the threaded orifice in the pin and journaled in the bearing in the cross clevis, and an evener clevis mounted for rotating on the pin.

3. In an article of the class described, a head having a vertical guideway and bearings at the ends of the guideway, a block movable in the guideway and having a threaded orifice disposed vertically in alignment with the bearings, and a horizontal orifice, a screw meshing in the threaded orifice and disposed in the bearings, a cross clevis having a horizontal orifice, a bolt extending through the two horizontal orifices, there being a horizontal guideway in the cross clevis with bearings at the ends of the guideway, a vertical pin for moving in the guideway in the cross clevis and having a horizontally threaded orifice, a screw meshing in the threaded orifice in the pin and disposed in the bearings in the cross clevis, and an evener clevis mounted on the pin.

4. In an article of the class described, a head having a vertical guideway and bearings at the ends of the guideway, a block movable in the guideway and having a threaded orifice disposed vertically in alignment with the bearings, and a horizontal orifice, a screw meshing in the threaded orifice and disposed in the bearings, a cross clevis having a horizontal orifice, a bolt extending through the two horizontal orifices, there being a horizontal guideway in the cross clevis with bearings at the ends of the guideway, a vertical pin for moving in the guideway in the cross clevis and having a horizontally threaded orifice, a screw meshing in the threaded orifice in the pin and disposed in the bearings in the cross clevis, an evener clevis mounted on the pin, and a depending lip on the cross clevis engaging the head for holding the cross clevis in horizontal position.

5. In an article of the class described, a head having a vertical guideway and bearings at the ends of the guideway, a block in the guideway and having a threaded orifice disposed vertically in alignment with the bearings, a screw meshing in the threaded orifice and disposed in the bearings, a cross clevis, means for securing the cross clevis to the block, there being a horizontal guideway in the cross clevis with bearings at the ends of the guideway, a vertical pin for moving in the guideway in the cross clevis and having a horizontal threaded orifice, a screw meshing in the threaded orifice in the pin and disposed in the bearings in the cross clevis, and an evener clevis mounted on the pin.

6. In an article of the class described, a cross clevis, means for securing the cross clevis to a plow, there being a horizontal guideway in the cross clevis with bearings at the ends of the guideway, a vertical pin for moving in the guideway and having a horizontally threaded orifice, a screw meshing in the threaded orifice in the pin and disposed in the bearings in the cross clevis, and an evener clevis mounted on the pin.

In testimony whereof we have signed our names to this specification in the presence of the subscribing witnesses.

ELI JONES.  
EDWIN J. OLSON.

Witnesses:  
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P. J. CONNELL.