

Claims

1. It consist of four linkages to support and hold the ladder, to be fall on side way during unbalance.
2. It can be extension to higher position.
3. It has a temporary working board for one man to stand or sit, and perform duties on top of the ladder.

Figure 6: Consist of four safety brackets for fastening of safety belt, when workers is on top of the ladder.

Figure 7: This new design ladder can be separated into two new ladders.

~~Drawing~~

Figure 1: Shown a newly design ladder, temporary working board A is located on top new ladder, it can be folded downward when the ladder is folding up. it can also hold heavy weight and allow one person to work and sit on it.

The linkages B are adjustable and able to slide up or down alone the bar of new ladder, depend on the extension of new ladder. Linkages B can be keep, because they are linking to the ladder.

Bars C are holder that does not allow the new ladder to slide apart, when it is being separate apart from folding up.

Main iron bar D is the main structure of the ladder.

Figure 2: It is linkages B and consist of two adjustable bracket F that can be, sliding up and down the pipe of the new ladder. The bar E is allow to keep the linkages B (in figure 1) when ladder is being folding after use.

The handle G is easy for tighten up both bracket F together.

Knob H is used to prevent and blocking the bracket F from slide a stopper to stop bracket F from sliding after being tight together. It act as a groove I allow the knob H to be able to slide up and down inside the main iron bar D.

Figure 3: Shown the top part of the new ladder, it is the temporary board A, picture j shown the inner part of the connecting structure. the circular inner bar N has thread L to screw into circular outer bar M with thread L too. The circular outer bar M is welded on to the temporary working board A. The circular inner bar N has a handle T for one's to tighten the circular outer bar M. These bars can hold heavy load when applying.

Figure 4: Shown both bars connected together with lock to lock them together, to prevent the new design ladder to slide off when the ladder is opening for use. The groove I allow both to keep inside the main iron bar D, once the lock is being open.

Figure 5: Shown the holes Q that allow the handle to stop the secondary iron bars sliding off the main iron bars D of the new design ladder.