

Technicians use this device to quickly set up an x-ray source without tools, to get the height they need safely and accurately.

## Background

This tool was developed to hold a Golden Engineering XRS-3 X-Ray Source. Technicians used this device to quickly set up the x-ray source without any tools and get the height they needed safely and accurately. This apparatus also allows them to lean the ladder up against a building, Box Truck or storage container and x-ray through the side.

## Description

This device mounts on a folding extension ladder allowing a camera articulating head or other electronic and mechanical devices to be affixed, thereby making the ladder a convenient stand (tripod). This ladder mount will allow the user to reach greater heights with better stability while providing an increased field of view. More particularly, the present invention provides an apparatus for mounting an X-ray device, a camera, video equipment, or other electronic devices, a Percussion-Actuated Non-electric (PAN) device, or other mechanical devices to a ladder.

## Advantages

This tool is unique because it is hinged and folds flat for easy transportability and storage. It also offers different mounting positions and a quick hanging setup that can be used on both the inside and outside of the ladder. Exceptional stability and strength is maintained by transferring the load to the lower ladder rung via the right angle leg of the platform. This mount is novel because of its ability to hold heavy loads.

Electronic devices such as X-ray devices, cameras, video equipment, and other electronic equipment often must be mounted high or in specific locations to obtain desired images or other signals. The electronic devices may be mounted on walls, ceilings, or other permanent structures at the required height. Where no permanent structures are nearby, the devices are frequently mounted on portable tripods or makeshift structures. The portable tripods and makeshift structures are generally not sturdy or rigid, which makes the images or signals obtained by the devices blurry, shaky, or otherwise unusable. Tripods may also not fit into the desired location. Additionally, mechanical devices such as PAN devices require very precise positioning.

Ladders are known to be readily available, to fit into many locations, and to be sufficiently sturdy for mounting most electronic and mechanical devices. Many people have used ladder accessories such as ladder paint trays and tool tray attachments for attaching electronic and mechanical devices to ladders. However, these ladder accessories are not very sturdy because they are intended to merely support paint cans or inexpensive tools. Moreover, typical ladder accessories are not designed to rigidly attach to the ladders as this functionality is not required for simply supporting or holding the tools.

## Applications

This device has a wide range of varying applications including the following users:

- Companies conducting nondestructive testing operations
- Film Grips
- Police Departments
- Homeland Security
- Professional Photographers
- FBI
- Bomb technicians
- Other potential users of this technology include:
  - Construction Industries with a need to hang and/or mount heavy items on ladders
  - Alarm Monitoring Companies
  - Security Companies

## Intellectual Property Status

This technology is protected under US Patent # 9,598,903.

## Keyword List

Camera Mount, X-Ray Camera Mount, X-Ray Source Mount, Ladder Mount, Tool Holder, PAN Disruptor Holder

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