

Title of Invention: Safety Linkage (Laundry stick pivotal mount)

Description:

The safety linkage (SL-1) is invented to reduce body strain of a person doing the job of hanging laundry on laundry stick outside any high-rise residential building. A person's body suffers great strain while lifting a wet and fully loaded laundry stick horizontally out of a high-rise building before inserting it into the laundry stick receptacle provided outside the building wall. The above task will also be dangerous for small-built and inexperienced person to perform as any unbalance of body could lead to a fall off the building.

The safety linkage has the ability capability of changing the present horizontal way of mounting of laundry stick into vertical way of mounting by allowing one of the sections to tilt upwards. The safety linkage is to be capped and secured by fasteners directly onto any laundry stick receptacle that was built during the construction of high-rise residential building. No mounting plate or base support to the external structure of the high-rise building is required as this design is only meant for buildings with integrated laundry stick receptacles.

By adding this safety linkage to the existing laundry stick receptacle, the user can easily use one hand to swing upwards the front section of the safety linkage to any comfortable angle (between horizontal and vertical positions, possibly at almost upright position which greatly reduces body strain) and simply insert the laundry stick into the front hollow section of the safety linkage. He/she needs only a small force to lower down the safety linkage together with the laundry stick to its nearly horizontal position for drying. When collecting the laundry stick back into the building, simply reverse the above steps. The safety linkage capped over the laundry stick receptacle also eliminates water being trapped in the laundry stick receptacle hence prevent breeding of mosquitoes.

As compared to those found in the search report:

- a) JP09-173693A, my invention is designed to install directly over a rigid support by capping over it and locked by commonly available fasteners, which does not require any fabricated wall-mounted bracket.
- b) JP2001-113097A, my invention is designed to install directly over a rigid support by capping over it and locked by commonly available fasteners, which does not require any wall-mounted supporting arm.
- c) GB2052967A, my invention is able to swing upwards for easy mounting of laundry stick and does not make use of any bearing bush.



The safety linkage comprising of two hollow metal sections (B, D). The aft section (B) has two larger brackets (A) welded on it and the front section (D) has two smaller brackets (E) welded on it. The aft (B) and the front sections (D) are pivotally connected by a **M12 x 90 mm galvanized steel bolt/red nut assembly** (F) with a metal sleeve (H) through brackets A & E to form a pivoting point. The aft section (B) will be capped and held in position by two sets of **M10 x 25 mm galvanized steel bolt/nut assembly fastener** (G) with welded handle (C). The front section (D) will be manually moved upwards against the pivoting point for the insertion/removal of laundry stick. At this position, the load acts on the person is very much reduced hence minimize body strain. The front section (D) has water drain-hole on it to eliminate any water traps.

~~pages 4 & 5.~~
Note: See attached User Guide, ~~pages 4 & 5.~~ See also drawings, pages 6 to 14 previously submitted.

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The claims:

- 1) A mechanical assisted apparatus comprising of two hollow metal assemblies sections (B, D as described with reference to the accompanying drawings, page 4 of 14). The two metal assemblies are held together and pivoted by a size M12 steel bolt. Assembly B is secured on the metal laundry pipe provided outside any high-rise building by two size M10 steel bolts and when in use, assemble D is allowed to swing towards the user body for easy insertion of laundry stick for drying and airing, which are pivotally connected via brackets welded on the outer surfaces of the two assemblies where one of the sections is secured to a horizontally constructed laundry stick receptacle by capping over it and tightened with two commonly available steel fasteners, the second section is adapted to receive a laundry stick at an almost vertical position.
- 2) A mechanical assisted household drying and airing apparatus as in claim 1; reduces user body strain against load as the load is now brought closes to the user body by moving assembly D towards the user body. A mechanical apparatus: when in use, section B is permanently secured on any laundry stick receptacle and section D is able to swivel from its horizontal position to almost vertical position for easy capturing of a laundry pole/stick.
- 3) A mechanical assisted household drying and airing apparatus as in claim 1; improves user safety in performing the task at high-rise building as part of the load is taken up by the mechanical assisted apparatus. A mechanical apparatus invented for household drying and airing purposes.
- 4) A mechanical assisted household drying and airing apparatus as in claim 1; eliminates water traps on the pre-casted laundry pipe outside the building as assembly B acts as a cap when installed on the laundry pipe and assembly D has water drain hole on it. A mechanical apparatus as compared to those found in the search report:
 - a. JP09-173693A, my invention is designed to install directly over a rigid support by capping over it and locked by commonly available fasteners, which does not require any fabricated wall-mounted bracket. There will be no hacking or drilling works to the building structure when placing the device in service.
 - b. JP2001-113097A, my invention is designed to install directly over a rigid support by capping over it and locked by commonly available fasteners, which does not require any wall-mounted supporting arm. There will be no hacking or drilling works to the building structure when placing the device in service.
 - c. GB2052967A, my invention is able to swing upwards for easy mounting of laundry stick and does not make use of any bearing bush.

The claims defining the invention are as follows:

1. A laundry stick safety link apparatus including:
 - a) A first tubular section for attachment to a fixed projection on a wall or parapet or balcony wall of a building.
 - b) Said first tubular section including:
 - i. A fastening means for removably securing the said first section to the said fixed projection; and,
 - ii. A first bracket fixed on the exterior of the first tubular section;
 - c) A second tubular section for receipt of a laundry stick and including a second bracket fixed on the exterior;

Wherein the first and second tubular sections are pivotally connected via the pivotal connection of the first and second brackets of respective first and second tubular sections.

2. A laundry stick safety link apparatus according to claim 1 wherein the said fixed projection extends substantially horizontally.
3. A laundry stick safety link apparatus according to any one of claims 1 or 2 including the first tubular section permanently fixed to the said projection.
4. A laundry stick safety link apparatus according to any one of claims 1 to 3 wherein the said second tubular section is pivotally attached to swing from a first substantially vertical position and to a second substantially horizontal position.
5. A laundry stick safety link apparatus as herein described with reference to the drawings.
6. A combination of a laundry stick safety link apparatus as herein described with reference to the drawings and a laundry stick removably attached to the said second tubular section.