

[64] Title: CLOTHES HANGER

[75] Inventor (s): RUPERT N.M. JAMESON, of Dasmariñas Village,
Makati, Metro Manila

[73] Assignee (s): None

[22] Filed: January 15, 1991

[21] Application Serial No: 41844

FOREIGN APPLICATION PRIORITY DATA

[31] Number (s) : None

[32] Date (s) : None

[33] Country (ies) : None

[52] PH Class 223/95

[51] Int. Class A47G 25/48

[58] Field of Search 223/95

[56] Reference (s) Cited and/or Considered:

U.S. Pat. No. 4,813,581, 3-21-89 La Mont
Phil. Pat. No. DM-3390 2-1-79 Jacinto

[67]

ABSTRACT

The present invention relates particularly to a clothes hanger adapted to conveniently hold clothing such as trousers, skirts and the like, comprising a back plate fixedly attached on a wall, a movable front arm extending downwardly from the top of said back plate and mounted thereon by an adjustable mounting means and spring means in such a manner that the lower section of said arm is capable of moving back and forth relative to the plate, said arm being provided with a pair of oppositely extending wheel mountings on which a pair of wheels is rotatably mounted and constantly pressed on the plate in normal use.

BAD ORIGINAL

26432

ABSTRACT

The present invention relates particularly to a clothes hanger adapted to conveniently hold clothing such as trousers, shirts and the like, comprising a back plate fixedly attached on a wall, a movable front arm extending downwardly from the top of said back plate and mounted thereon by an adjustable mounting means and spring means in such a manner that the lower section of said arm is capable of moving back and forth relative the plate, said arm being provided with a pair of oppositely extending wheel mountings on which a pair of wheels is rotatably mounted and constantly pressed on the plate in normal use.

BAD ORIGINAL



26432

S P E C I F I C A T I O N

RECEIVED PATENT OFFICE
MAY 22 1991

A CLOTHES HANGER

'91 MAY 22 10:00

FIELD OF INVENTION

The present invention relates in general to a hanging implement and more particularly to a clothes hanger most especially adapted to conveniently hold clothing such as trousers, skirts and the like.

5 BACKGROUND OF THE INVENTION

It is well known in the art that conventional clothes hangers are practically effective in hanging most types of clothing. However, they are not that effective when it comes to hanging trousers, skirts and the like. For practical reason, these trousers are hung on conventional
10 hangers by folding them at their mid section and suspending them across the bar thereof. This conventional way of hanging trousers, including wearer's trousers stored temporarily for wearing again, has the following unwanted draw-backs: a) pockets must be emptied to avoid items falling out; b) it is not very handy and it takes time to hang trousers well and
15 to take them out again. These shortcomings present some inconveniences to the user especially when he or she is in a hurry.

SUMMARY OF THE INVENTION

The present invention seeks to overcome the shortcomings and disadvantages of the prior art by providing a clothes hanger that is adaptively
20 designed to conveniently hold trousers, skirts and the like vertically without the necessity of folding them in half, removing belts, or emptying their pockets. Being a wheel-type clothes hanger, the present invention eliminates the time lag or delay involved in using the conventional way of hanging trousers and the like. In fact, insertion and taking of trousers
25 into and from the spring-tensioned wheels of the present hanger would only take about one or two seconds.

It is therefore the main object of this invention to provide a clothes hanger of the type having a pair of independently rotatable spring-tensioned wheels as the main element designed to efficiently hold trousers, skirts

and like downwardly unfolded against a flat vertical surface.

Another object thereof is to provide a clothes hanger that is adapted to securely hang clothing such as trousers and the like, whereby their pockets need not be emptied and folding them for suspension is not a
5 practically necessity anymore.

Still another object thereof is to provide a clothes wherein hanging and taking out of trousers, skirts and the like take only about one or two seconds.

Yet another object thereof is to provide a clothes hanger that does not
10 need a rail to hang from as it is fixedly attached on walls or any vertical plane such as a door.

BRIEF DESCRIPTION OF THE DRAWING

These and other features and advantages of the present invention will become apparent and be appreciated upon reading the following detailed
15 description thereof taken in conjunction with the appended drawings wherein:

FIG. 1 is a perspective view of the present invention as installed on a wall, with securely held trousers shown a phantom;

FIG. 2 is a cross-sectional view thereof taken along line 2-2 in Fig. 1;

20 FIG. 3 is a cross-section view thereof taken along like 3-3 in Fig. 1; and

FIG. 4 is a cross-sectional view of another embodiment of a wheel mounting of the invention.

DETAILED DESCRIPTION OF THE DRAWING

25 Referring now to the drawings in detail wherein like reference numerals designate the same parts all throughout therein, there is shown in Fig. 1 a clothes hanger 10 comprising generally a smooth-surface back plate 11 provided with a mounting means 12, a movable front arm 13, a spring means 14 and a pair of wheels 15 rotatably mounted on said arm.

30 Said back plate is to be fixedly attached on walls 16 or any vertical surface as may be desired, with the aid of a fastening means such as screws 17. The front arm 13 downwardly extends from the top portion of said plate

through a bridge section 18 defining a space 19 between said plate and arm. Said bridge section serves as a housing of said spring means and mounting means. Said arm is pivotally connected to said mounting means through a threaded rod 20 forwardly extending and fixedly attached on said back plate, wherein a hole 21 at the upper section of said arm is mounted through said rod by an adjustable locking means 22. A sufficient clearance is provided between said hole and rod to allow a pivotal motion of the arm thereby enabling it to move back and forth relative to the lower section of the back plate. Said spring means consists of a spring 14A fixed mounted directly above and parallel said rod on an integral mounting base 12A provided at the upper portion of said back plate to connect both the arm and back plate so that a pulling force applied on the lower section of the arm below the rod is resisted by the spring action. A pair of oppositely extending wheel mountings 23 are integrally provided at the lower section of said arm, wherein said pair of wheels are correspondingly attached rotatably thereon through a bushing 24 and a lock screw 25 so that each of the wheels is perpendicularly positioned relative to the surface of said back plate. With this position, the wheels are capable of applying a pressure upon the surface of said plate. The wheels are pressed constantly on the plate surface by the action of said spring.

Another way of rotatably attaching the wheel to the wheel mounting 23 is by providing said mounting with an integral snap-on type wheel mounting extension 28 through which the hub of the wheel is snappingly inserted. Said extension is divided along its longitudinal axis by a slot 29 defining a pair of flexible axle members 30 with enlarged end section 31 serving as a lock.

The amount of pressure applied by said wheels on the back plate may be variably controlled by adjusting said locking means which may be a locking screw 26 as shown in Fig. 1. Tightening of said screw forcibly pushes the arm downward and compresses the spring thereby applying more pressure on the plate or the trousers held by the wheels.

In operation, the trousers (even with the belt in place), when held by two hands at the top, can be slipped into the space 19 under the wheels by a vertical lifting motion so that the trousers are held by pressure

against said plate. With the frictional force component established, the level of which depends on the degree of pressure applied by the spring mechanism, the trousers are now conveniently hung vertically. Removal of said trousers is done by simply pulling them downward. With this feature, the present invention is quick to use, causes no damage to trousers and does not crease same.

The present hanger as embodied in this invention may be preferably made of plastic material or any material such as metal, wood as long as it has the needed flexibility to serve its particular purpose.

While preferred embodiments of the invention have been disclosed and described, as previously noted, various other embodiments may be preferred by others skilled in the art. Accordingly, the scope of the invention is not limited to the preferred embodiment.

For example, the wheels may be fitted with a ratchet device which would permit their rotation only at the time of insertion of the trousers, thus increasing the friction needed to withdraw the trousers from the device.

Alternative ways to increase friction in case of need in certain cases would be to incorporate smooth horizontal ridges on the back plate, or even to replace the wheels by rigid skids mounted on the arms and pressing on the back plate.

WHAT IS CLAIMED IS:

1. A clothes hanger adapted to conveniently hang trousers, skirts and the like, comprising:
 - a back plate fixedly attached on a wall or vertical surface and provided with a mounting means at the top portion thereof;
 - a movable front arm extending downwardly from the top of said plate through a bridge section defining a space between said plate and arm, the upper section of said arm being pivotally mounted on said mounting means and adjustably locked in place by a locking means, in such a manner that the lower section thereof is capable of moving back and forth relative to the

plate, wherein the lower section of said arm is provided with
a pair of oppositely extending wheel mounting;
a spring means consisting of a spring mounted directly above
said mounting to connect both said arm and plate; and
a pair of wheels rotatably mounted on the corresponding wheel
5 mountings, said wheels being constantly pressed on the
surface of the plate by the action of said spring purposely
to conveniently hold clothings such as trousers, skirts
and the like insertably placed in between said plate and
wheels.

10 2. A clothes hanger in claim 1 wherein said mounting means consisting
of a threaded rod forwardly extending and fixedly attached on an integral
mounting base provided on said back plate, wherein said arm is mounted on
said mounting means through a hole provided on the upper section of said
arm. Said hole insertably mounted through said rod leaving a sufficient
15 clearance therebetween to allow pivotal motion of the arm to and from
the plate wherein the degree of pressure effected by the wheels is variably
controlled by adjusting said locking means.

20 3. A clothes hanger in claim 1 wherein said bridge section serves
to limit the moving arm lateral movement and as a housing of said spring
means and mounting means.

4. A clothes hanger in claim 1 wherein said pair of wheels are
correspondingly attached rotatably on said wheel mountings through a
bushing and a lock screw combination.

25 5. A clothes hanger in claim 1 wherein said pair of wheels are
correspondingly attached rotatably on said wheel mountings by providing
said mountings with an integral snap-on type wheel mounting extension
through which the hub of the wheel is snappingly inserted.

RUPERT N.M. JAMESON
Inventor

26432

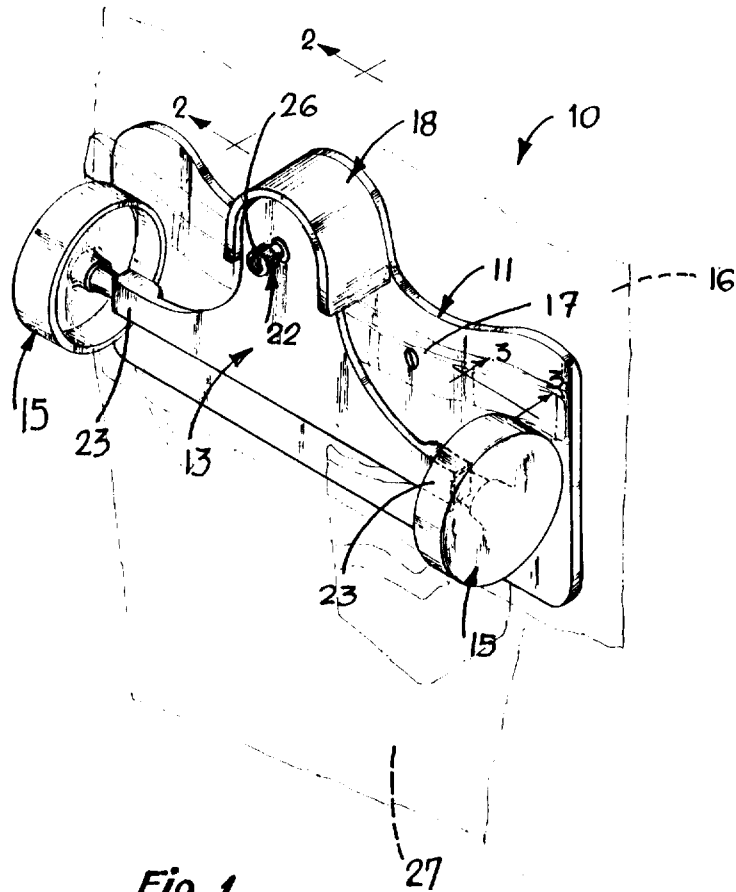


Fig. 1

LEDESMA, SALUDO & ASSOCIATES

by:

Pablo M. Gancayco
PABLO M. GANCAYCO

RUPERT N.M. JAMESON

INVENTOR

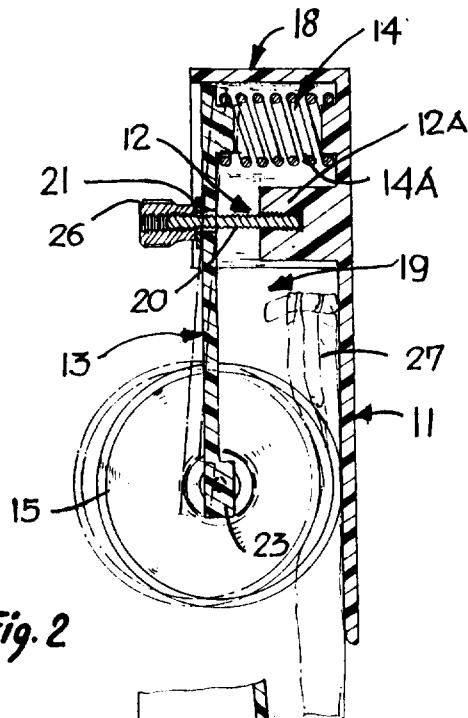


Fig. 2

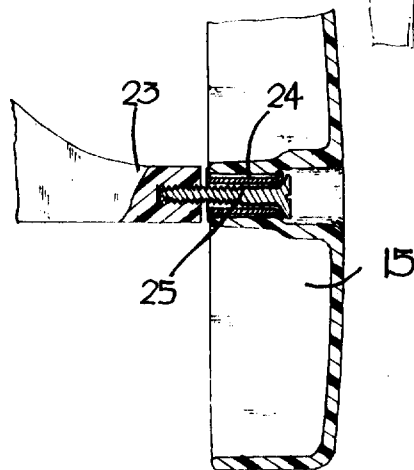


Fig. 3

LEDESMA, SALUDO & ASSOCIATES

By:

PABLO M. GANCAYCO

RUFERT N. M. JAMESON

INVENTOR

26432

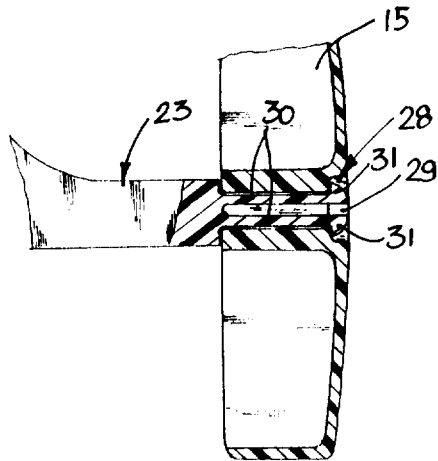


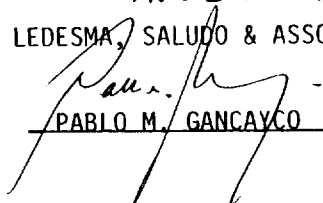
Fig. 4

RUPERT N.M. JAMESON

INVENTOR

LEDESMA, SALUDO & ASSOCIATES

By:


PABLO M. GANCAICO