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Inventor(s)	Martinez; Catherine A.

Document hanger

Abstract

The document hanger has a frame, one or more hanger lines, and a plurality of clips. The document hanger may be configured to display plurality of items simultaneously. As non-limiting examples, the plurality of items may be documents, reports, art projects, photographs, student works, certificates, other light-weight articles, or any combination thereof. As further non-limiting examples, the document hanger may be installed on a wall, on a bulletin board, over windows, or from a ceiling in a classroom, real estate office, business, event venue, or home. The one or more hanger lines may be stretched horizontally between a pair of vertical frame supports. The plurality of clips may be configured to couple individual items selected from the plurality of items to the one or more hanger lines. In some embodiments, the width and/or height of the frame may be adjustable.

Inventors: **Martinez; Catherine A. (El Dorado Hills, CA)**

Applicant: **Martinez; Catherine A.** (El Dorado Hills, CA)

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Primary Examiner: Novosad; Jennifer E.

Attorney, Agent or Firm: Cramer Patent & Design, PLLC.

Background/Summary

RELATED APPLICATIONS

(1) None.

FIELD OF THE DEVICE

(2) The present device pertains to a document hanger and more specifically to a document hanger having adjustable features.

BACKGROUND OF THE DEVICE

(3) There are many business, educational, and recreational settings where a wide range of lightweight materials need to be shown. Papers, photos, works of art, and many other things can be among these. Think about a teacher who wants to show off student work, a designer who wants to show a client a possible design idea, or an agent who is looking at evidence in a crime case. These are just a few examples, but they all have one thing in common: they all need to show things clearly so that they can be studied, appreciated, or talked about in more depth.

(4) Using adhesives like tape has been the most popular way to deal with this problem in the past. These are stuck to vertical surfaces like windows, walls, whiteboards, and whiteboards to make them into temporary exhibition areas. There are some problems with this method, though.

(5) To begin, it's hard on the body. Imagine having to climb up and down chairs and stools over and over again to get that picture or piece of paper to stick just right where everyone can see it. Putting things on display this way can be dangerous and time-consuming, especially if there are a lot of things to show.

(6) Next, tapes are known for leaving behind leftovers. If you take down the tape, you might be left with a sticky, ugly mess, depending on the type of tape you used and the surface it was stuck to. Over time, this can lower the quality of the surfaces, which can hurt their look and function.

(7) There is also the problem that this method is very rigid. This method doesn't give you a lot of freedom in changing environments where the way things are arranged might need to be changed all the time. Moving things around that are taped together is not only time-consuming, but it could also damage the items.

(8) Moving from one place to another adds another barrier. It takes a long time to take down and re-set up the display every time someone moves, like a teacher to a different classroom or a businessperson to a different meeting room. And in the world we live in now, every minute is important. In order to deal with these problems, a better solution is needed. The development of the document hanger addresses this need in a manner that is safe, efficient, and cost effective.

SUMMARY OF THE DEVICE

(9) The described invention pertains to a document hanger device designed primarily for displaying various items. The central embodiment features a vertically-oriented rectangular frame with an open center. This frame is notable for its adjustable vertical and horizontal supports. Stretched horizontally between these vertical supports are one or more hanger lines, designed for holding items via a series of clips. These hanger lines can be positioned and repositioned thanks to a range of wire couplers present on the vertical supports. A key functional feature includes detachable mounting hooks, which enable the device to be hung on either walls or ceilings.

(10) Several embodiments emerge from this central design. The items to be displayed can encompass a range of lightweight materials, such as documents, art projects, photos, student assignments, certificates, among others. The device has versatility in its placement, being apt for environments like classrooms, homes, businesses, real estate offices, and event venues. In terms of its structure, the vertical supports of the frame can telescope and are equipped with height adjusters for easy modification of the frame's height. Similarly, the horizontal supports are designed to adjust in width.

(11) Certain wire couplers on the device can be left unused, offering flexibility in positioning the hanger lines. If there's a need to adjust the width of the frame, the hanger lines can be replaced, cut, or even lengthened to accommodate. A particularly convenient feature is the ability to add or

remove items from the hanger lines without needing to take down the entire device, or by simply adjusting the position of the frame. It can function as a single-sided display or a double-sided one, making it suitable as a room divider. Depending on manufacturing choices and requirements, the device's specifications, materials, and usage methods can vary. A notable material choice for the hanger lines includes durable options like wire, nylon, or polyethylene.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

(1) The advantages and features of the present device will become better understood with reference to the following more detailed description and claims taken in conjunction with the accompanying drawings, in which like elements are identified with like symbols, and in which:

(2) FIG. **1** is a front view of a document hanger **100**, according to an embodiment of the present device, illustrating the frame **200**;

(3) FIG. **2** is a detail view of a document hanger **100**, according to an embodiment of the present device, illustrating one (1) or more hanger lines **240** and one (1) of a plurality of mounting hooks **254**;

(4) FIG. **3** is a detail view of a document hanger **100**, according to an embodiment of the present device, illustrating the left side frame support **202** and a vertical frame support height adjuster **208**;

(5) FIG. **4** is a detail view of a document hanger **100**, according to an embodiment of the present device, illustrating the top frame support **222** and a horizontal frame support width adjuster **228**;

(6) FIG. **5** is an in-use view of a document hanger **100**, according to an embodiment of the present device;

(7) FIG. **6** is an alternate in-use view of a document hanger **100**, according to an embodiment of the present device.

DESCRIPTIVE KEY

(8) **100** document hanger **200** frame **202** left frame support **204** right frame support **206** plurality of wire couplers **208** vertical frame support height adjuster **222** top frame support **224** bottom frame support **228** horizontal frame support width adjuster **240** hanger line **250** clip **254** mounting hook **900** item **920** wall **922** window **930** ceiling

DESCRIPTION OF THE DEVICE

(9) The present device is directed to a document hanger (herein described as the “device”) **100**. The device **100** may comprise a frame **200**, one (1) or more hanger lines **240**, and a plurality of clips **250**. The device **100** may be configured to display plurality of items **900** simultaneously. As non-limiting examples, the plurality of items **900** may be documents, reports, art projects, photographs, student works, certificates, other light-weight articles, or any combination thereof. As further non-limiting examples, the device **100** may be installed on a wall **920**, on a bulletin board, over windows **922**, or from a ceiling **930** in a classroom, real estate office, business, event venue, or home using any suitable fastener such as a plurality of hooks (not shown). The hanger lines **240** may be stretched horizontally between a pair of vertical frame supports. The plurality of clips **250** may be configured to couple individual items selected from the plurality of items **900** to the hanger lines **240**. In some embodiments, the width and/or height of the frame **200** may be adjustable.

(10) The frame **200** may form a vertically-oriented rectangle with an open center. The hanger lines **240** may be stretched between opposing lateral sides of the frame **200**. The frame **200** may retain the hanger lines **240** in predetermined positions. The frame **200** may determine the spacing between the hanger lines **240**. The frame **200** may establish the overall dimensions of the device **100** and therefore may determine the capacity of the device **100**.

(11) The frame **200** may comprise a pair of vertical frame supports and a pair of horizontal frame supports. The pair of vertical frame supports may be vertically-oriented armatures comprising the

lateral sides of the frame **200**. The pair of vertical frame supports may comprise a left frame support **202** located on the left side of the frame **200** and a right frame support **204** located on the right side of the frame **200**. The left frame support **202** may be oriented to be parallel to the right frame support **204**.

(12) An individual vertical frame support selected from the pair of vertical frame supports may comprise a plurality of wire couplers **206** where the hanger lines **240** couple to or pass through the frame **200**. As non-limiting examples, the plurality of wire couplers **206** may comprise anchors, rivets, grommets, apertures, crimp sleeves, hooks, fittings, or any combination thereof.

(13) In general, an individual wire coupler on the left frame support **202** may be paired with a corresponding individual wire coupler on the right frame support **204** and the hanger lines **240** may be stretched horizontally between the individual wire couplers on the left frame support **202** and the corresponding individual wire couplers on the right frame support **204**.

(14) In some embodiments, one (1) or more of the plurality of wire couplers **206** may be left unpopulated such that the hanger lines **240** may be repositionable. In this context, unpopulated may refer to the fact that the hanger lines **240** do not pass through an unpopulated wire coupler.

(15) In some embodiments, the individual vertical frame support may be adjustable such that the height of the frame **200** may be changed. As a non-limiting example, the individual vertical frame support may be divided into two (2) or more telescoping vertical segments joined by vertical frame support height adjusters **208**. The vertical frame support height adjusters **208** may be loosened to permit individual vertical segments of the individual vertical frame support to slide in a manner that lengthens or shortens the individual vertical frame support. The vertical frame support height adjusters **208** may then be tightened to retain an established height for the frame **200**.

(16) The pair of horizontal frame supports may be horizontally-oriented armatures. The pair of horizontal frame supports may comprise a top frame support **222** located on the top of the frame **200** and a bottom frame support **224** located at the bottom of the frame **200**. The top frame support **222** may be oriented to be parallel to the bottom frame support **224**. The top frame support **222** and the bottom frame support **224** may be oriented to be perpendicular to the left frame support **202** and the right frame support **204**.

(17) In some embodiments, an individual horizontal frame support selected from the top frame support **222** and the bottom frame support **224** may be adjustable such that the width of the frame **200** may be changed. As a non-limiting example, the individual horizontal frame support may be divided into two (2) or more telescoping horizontal segments joined by horizontal frame support width adjusters **228**. The horizontal frame support width adjusters **228** may be loosened to permit individual horizontal segments of the individual vertical frame support to slide in a manner that lengthens or shortens the individual horizontal frame support. The horizontal frame support width adjusters **228** may then be tightened to retain an established width for the frame **200**.

(18) As non-limiting examples, the hanger lines **240** may be made of wire or a monofilament polymer such as nylon or polyethylene. In some embodiments, the hanger lines **240** may be coupled between the left frame support **202** and the right frame support **204** at each height on the frame **200** where the hanger lines **240** appear and the hanger lines at each height may be independent of all other hanger lines. Alternatively, a single hanger line may be threaded back and forth through the frame **200** such that the single hanger line appears at each height in the frame **200** where the hanger lines **240** appear.

(19) As non-limiting examples, the hanger lines **240** may be replaced, cut, lengthened from a surplus length coupled to the frame **200**, or any combination thereof when necessitated due to changing the width of the frame **200**. A plurality of mounting hooks **254** may detachably couple to the frame **200** to suspend the frame **200** from the wall **920** or the ceiling **930** for viewing.

(20) The plurality of clips **250** may be configured to detachably couple the plurality of items **900** to the hanger lines **240**. The plurality of items **900** may be displayed on the front side of the device **100**, on the rear side of the device **100**, or both. The plurality of items **900** may be coupled to the

device **100** and decoupled from the device **100** while the device **100** is suspended from the plurality of mounting hooks **254**. Alternatively, the frame **200** may be lowered to change the plurality of items **900** by decoupling the frame **200** from the plurality of mounting hooks **254**. As a non-limiting example, the frame **200** may be lowered using one (1) or more reaching tools that comprise an extension pole with a forked end to lower the frame **200** from the plurality of mounting hooks **254** and to lift the frame **200** onto the plurality of mounting hooks **254**.
(21) In use, the plurality of mounting hooks **254** may be coupled to a wall **920** or to a ceiling and the frame **200** may be detachably coupled to the plurality of mounting hooks **254**. Plurality of items **900** may be detachably coupled to the hanger lines **240** such that the plurality of items **900** are displayed for viewing. The plurality of items **900** may be display on a single side of the frame **200** or on both sides of the frame **200**. As a non-limiting example, the frame **200** may be suspended from the ceiling to form a room divider and the plurality of items **900** may be coupled to both sides of the frame **200**.
(22) In some embodiments, the height and/or width of the frame **200** may be changed by loosening the vertical frame support height adjusters **208**, the horizontal frame support width adjusters **228**, or both and telescoping the individual vertical frame supports and/or the individual horizontal frame supports to lengthen and/or shorten side of the frame **200**. In some embodiments, resizing the frame **200** may necessitate changing the length of the hanger lines **240**. As non-limiting examples, the hanger lines **240** may be replaced, cut, lengthened from a surplus length coupled to the frame **200**, or any combination thereof when necessitated due to changing the width of the frame **200**.
(23) Referring now to FIGS. **5** and **6**, the plurality of items **900** may be added and/or removed from the hanger lines **240** while the frame **200** is suspended from the wall **920** or the ceiling **930**. Alternatively, the frame **200** may be lowered and replaced using one (1) or more reaching tools.
(24) The exact specifications, materials used, and method of use of the device **100** may vary upon manufacturing. The foregoing descriptions of specific embodiments of the present device have been presented for purposes of illustration and description. They are not intended to be exhaustive or to limit the device to the precise forms disclosed, and obviously many modifications and variations are possible in light of the above teaching. The embodiments were chosen and described in order to best explain the principles of the device and its practical application, to thereby enable others skilled in the art to best utilize the device and various embodiments with various modifications as are suited to the particular use contemplated.

Claims

1. A document hanger device consisting of: a vertically-oriented rectangular frame having an open center and consisting of a pair of vertical frame supports and a pair of horizontal frame supports; a plurality of wire couplers positioned along at least one of the vertical frame supports; a plurality of hanger lines extending horizontally between corresponding wire couplers on the vertical frame supports; a plurality of clips coupled to the hanger lines and configured to detachably secure one or more display items to the hanger lines; and, a plurality of detachable mounting hooks configured to suspend the frame from a wall or ceiling; and, wherein the pair of vertical frame supports are parallel to each other and oriented perpendicular to the pair of horizontal frame supports; wherein the frame is detachable from the mounting hooks to allow for repositioning or replacement of the display items; wherein at least one of the vertical frame supports and at least one of the horizontal frame supports consist of telescoping segments joined by frame adjusters configured to allow selective adjustment of a height and a width of the frame; wherein the hanger lines are repositionable by selectively coupling to different wire couplers, and one or more of the wire couplers are left unpopulated when the hanger lines are not coupled thereto; wherein each of the hanger lines is made of wire or monofilament polymer; and, wherein the display items are

removably attachable to the hanger lines while the frame is suspended from the mounting hooks or while the frame is detached therefrom.