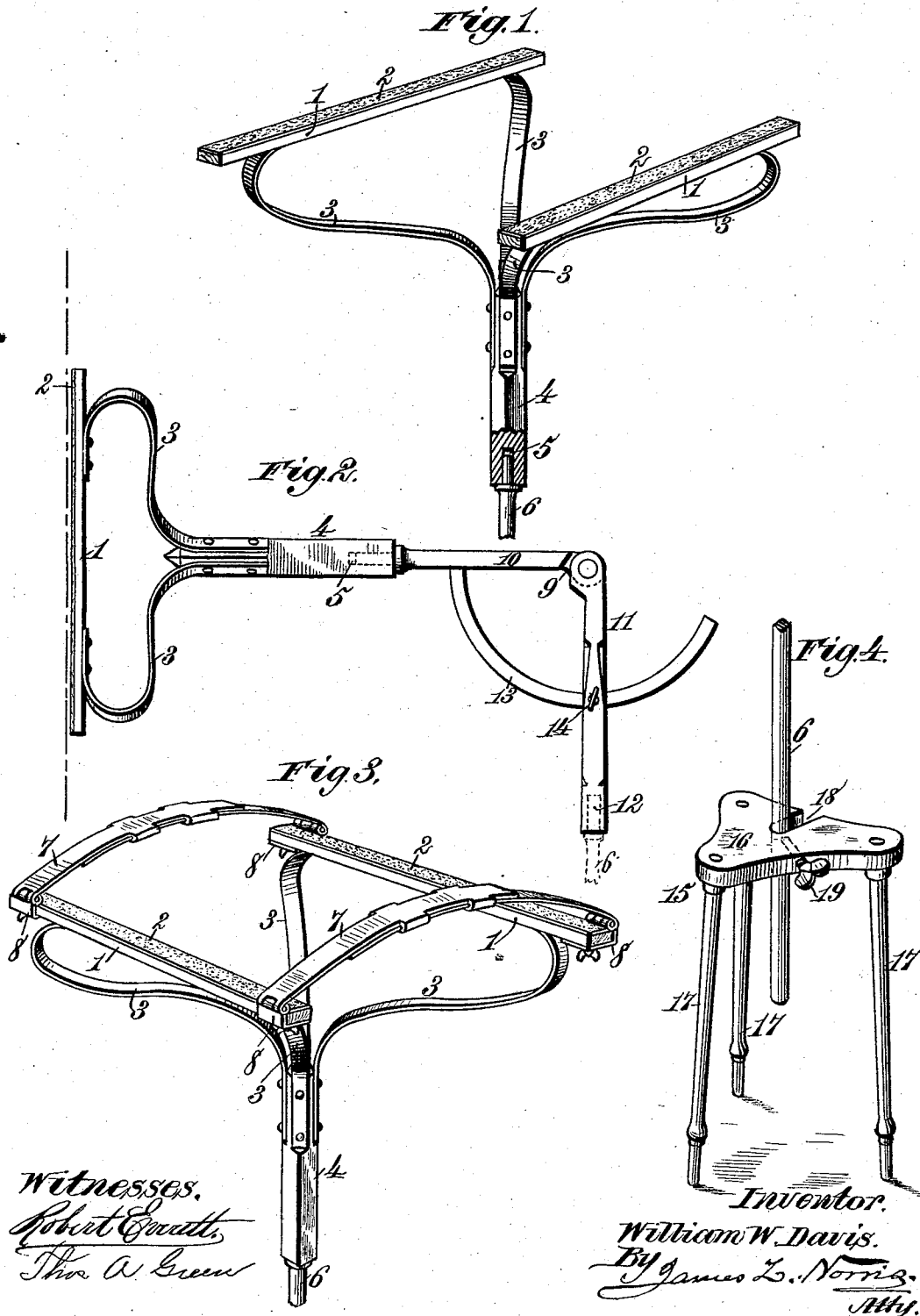


(No Model.)

W. W. DAVIS.
PAPER HANGING APPARATUS.

No. 529,249.

Patented Nov. 13. 1894.



UNITED STATES PATENT OFFICE.

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PAPER-HANGING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 529,249, dated November 13, 1894.

Application filed July 19, 1894. Serial No. 517,993. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WALLACE DAVIS, a citizen of the United States, residing at Woodford, in the county of Montgomery and State of Tennessee, have invented new and useful Improvements in Paper-Hanging Apparatus, of which the following is a specification.

My invention relates to paper-hanging apparatus and has for its objects to lessen the labor and expense of paper hanging and facilitate the application of paper to walls and ceilings with swiftness and precision.

The invention consists in a paper-supporting frame of peculiar construction and in the combination therewith of certain attachments to constitute a convenient apparatus for use in applying paper-hangings to walls and ceilings that are either straight or which present surfaces of varying angles or curvature, as hereinafter more particularly set forth.

In the annexed drawings illustrating the invention—Figure 1, is a perspective of the main frame or principal portion of my improved paper hanging apparatus, with its lower socketed end in section and engaged with a supporting rod or handle. Fig. 2, shows the main paper-hanging frame provided with an elbow attachment to facilitate the application of paper to a vertical wall or to surfaces of varying angles. Fig. 3 shows the paper-hanging frame provided with detachable and adjustable arc shaped bars for applying paper to arched ceilings and other curved surfaces. Fig. 4, is a perspective of a knockdown or detachably constructed stand adapted to afford a firm support for the vertical rod or handle of the paper-hanging frame and allow the workman to use his brush with both hands.

The paper-hanging frame or support comprises two parallel bars 1 that may be arranged about twenty-five inches apart and each made, say, twenty inches long by one inch wide and of suitable thickness. These bars 1 are preferably made of wood and covered on the upper side with cloth or felt 2, or other suitable material, to prevent scratching or marring the paper. To the under side of each bar 1 and near its opposite ends are secured spring arms 3 composed of flat steel

and each reversely curved at its ends to furnish the required elastic support for the frame bars. At their lower ends the spring arms 3 converge and are secured in any convenient manner to a centrally located head 4 arranged below the parallel frame bars 1 and at a right angle to said bars. This head 4 may be composed of metal and is, preferably, about four or five inches in length. In its lower end is a socket 5 into which a supporting rod or handle 6 may be inserted.

In using this device for holding or supporting a strip of paper in contact with the ceiling of a room in position for proper use of the usual brush, the paper is first to be cut into the required lengths to extend across the ceiling and with sufficient surplus to lap onto the walls at each end. Each strip of paper is supplied with paste and folded onto itself from both ends, equally, being first provided on its selvage with a mark at a point midway its length. The ceiling should be accurately measured lengthwise and at the middle of one side a mark, say, two feet long should be made to indicate the position that must be taken by the central mark on the first strip of paper. The strip is to be applied by starting from the center of the ceiling on one side and brushing each way. After the strip of paper has been supplied with paste and folded onto itself from each end toward the center it is then laid across the bars 1 of the paper hanging frame with the selvage projecting over one end of the frame. The paper may now be unfolded and its ends allowed to hang down on each side as the frame is raised by its handle 6 into contact with the ceiling. The paper hanging frame will be moved to such position that it will have one end toward and near the side wall of the room at the point where the hanging is to commence, and care must be taken to see that the mark on the selvage is brought in line with the mark on the ceiling. The frame is then to be pressed upward against the ceiling and slightly outward against the wall so that the selvage will lap down onto the wall; and the operator will then take a long handled brush in one hand, while he holds the paper hanging frame in the other, and will brush one end portion of the paper out-

ward from the frame and across the ceiling in the usual manner. The frame may then be lowered and the brush applied to run the other portion of the paper across the ceiling.

5 The succeeding strips of ceiling paper will be applied in the same manner as the first one, each strip being marked on its selvage, midway the length of the strip to serve as a guide in applying the center portion of the strip

10 onto the central line of the ceiling. Paper matching figures are from ten to twelve inches apart and as the paper hanging frame is a little over two feet across there will always be several matching figures in the field of the

15 frame and if properly matched in the center the paper is bound to go straight for the rest of the way to its opposite ends. When the paper is laid across the frame bars 1 it will tend to bag just a little but under the up-

20 ward pressure of the rod or handle 6, acting through the spring arms 3, the bars 1 are forced outward or away from each other thus stretching the paper sufficiently to prevent bagging where it is applied to the wall or

25 ceiling.

If the ceilings or walls of an apartment present curved surfaces the frame bars 1 may be bridged by arcs 7 each composed of two flat steel pieces arranged to slide adjustably on

30 each other. These arcs 7 may each be about one inch wide and each arc piece is hinged to a clip 8 detachably secured to the frame bars 1 near their opposite ends. The construction of the arcs 7 in sliding sections having hinged

35 supports permits a ready adjustment to the varying curvatures of arched ceilings. In using this attachment the paper strips are prepared as already described and are then laid across the arcs 7 by which they are to be

40 pressed against the curved wall or ceiling. The clips 8 are detachably fastened to the bars 1 so that the arcs 7 may be readily removed when not required for use.

It is sometimes convenient or desirable to

45 operate the paper hanging frame at an angle to the position in which the handle 6 is most easily held. For this purpose a jointed elbow 9 may be arranged intermediate the head 4 and handle 6 and in connection with each.

50 This elbow comprises an arm 10 to be inserted in the socket 5 of the head 4, an arm 11 jointed to the arm 10 and having a socket 12 to receive the handle 6, and a sector 13 through which the jointed arms 10 and 11 may be se-

55 cured in any adjusted position. The sector 13 is secured to one of the arms, as 10, and is passed through a slot in the other arm 11 which is provided with a set screw 14 for holding the arms at any desired angle. The arms

60 10 and 11 may each have a length of six or eight inches, more or less. By means of this device the paper hanging frame may be operated in various positions or at different angles while its supporting rod or handle 6 re-

65 mains vertical or otherwise.

In order to provide a firm support for the paper hanging frame, without requiring its

being held by the operator or an assistant, thus giving the workman free use of both hands, a pedestal or stand 15 may be provided.

70 This stand consists of a triangular top 16 having three or more detachable legs 17 and provided with a slot or opening 18 into which the rod or handle 6 may be inserted. A set screw 19 or other fastening will secure the

75 handle 6 firmly to the stand or pedestal and permit any necessary vertical adjustment of said handle and attached paper hanging frame to accord with differences in the height of apartments. The pedestal or stand 15 may

80 have an elevation of about four feet, more or less, and will afford a firm support to suit any of the various adjustments or modes of use to which the paper hanging frame is adapted. The rod or handle 6 may, of course, be of any

85 length to suit the height of an apartment or the space within which the apparatus is to be operated.

With this paper-hanging apparatus may be effected a large saving of time, labor and ex-

90 pense, the use of scaffolding is entirely avoided, and one man can alone manage the hanging of paper on the walls and ceilings of large apartments and accomplish the required work swiftly and with perfect accu-

95 racy and neatness.

The apparatus is readily detachable in all its parts and may be readily packed into a small space for storage or transportation.

What I claim as my invention is—

1. In a paper hanging apparatus, a frame composed of parallel bars, spring arms attached to the under sides of said bars, a socketed head to which the lower converging ends of said spring arms are secured, and a

105 handle inserted in the socketed head, substantially as described.

2. In a paper hanging apparatus, a paper supporting frame having spring arms, a centrally located head to which the lower converging ends of the said spring arms are se-

110 cured, a handle for said head, and adjustable arcs carried on the frame and adapted to conform to varying curvatures of arched ceilings, substantially as described.

3. In a paper hanging apparatus, a frame having curved surfaces to support the paper, spring arms attached to said frame, a centrally located head to which the lower converging ends of the spring arms are secured

120 and a handle for said head and frame.

4. In a paper hanging apparatus, the combination with a paper supporting frame having spring arms on its under side, and a centrally located head to which the converging

125 lower ends of said spring arms are secured, of an adjustable elbow detachably connected with said head and a handle detachably connected with the elbow, substantially as described.

5. In a paper hanging apparatus, the combination of a paper supporting frame, spring arms attached to said frame, a socketed head to which the converging ends of the spring

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arms are secured, an adjustable elbow detachably connected to the said head and composed of jointed arms, means for adjusting the said jointed arms to required angles, and a handle detachably connected to one of the arms of said elbow, substantially as described.

6. In a paper hanging apparatus, the combination of a paper supporting frame having its under side provided with converging spring arms, a centrally located head to which the lower converging ends of said spring arms

are secured, a handle or rod detachably connected with said head and a pedestal or stand in which the said rod or handle may be secured, substantially as described.

In testimony whereof I have hereunto set my hand and affixed my seal in presence of two subscribing witnesses. 15

WILLIAM WALLACE DAVIS. [L. s.]

Witnesses:

R. A. GARDNER,

R. H. BURNEY.