



# UNITED STATES PATENT OFFICE.

SAMUEL WEAVER, OF GETTYSBURG, PENNSYLVANIA.

## PORTABLE PHOTOGRAPHIC GALLERY.

Specification forming part of Letters Patent No. 40,970, dated December 15, 1863.

*To all whom it may concern:*

Be it known that I, SAMUEL WEAVER, of Gettysburg, in the county of Adams, in the State of Pennsylvania, have invented a new and useful Improvement in Portable Daguerrean Galleries or Houses; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification.

Figure 1 is a transverse vertical section of the gallery, as indicated by the red line 3 4 in the top view of Fig. 4, showing the sides extended out, giving a view of the horizontal elongated sliding bars at the top and bottom of the movable sides, to which the ends are attached, sliding in friction roller boxes secured to the upper and lower portions of the framework of the gallery, showing the positions of the movable part of the roof hinged immediately underneath the eaves of the stationary roof on each side, showing the detached or movable flooring and ends and legs for supporting the gallery, having horizontal arms joined to the top ends of each, secured to the sides of the bottom beams of the framework when in use, the arms supporting the extension part, the extension of which is facilitated by the sides having friction-rollers at or near the bottoms on the outside, thereby relieving the straining and exertion which they would otherwise be subjected to in the pulling out of the movable sides. Fig. 2 is a longitudinal vertical section through the gallery, as indicated by the red line 1 2 in top view of Fig. 4, showing the ends of the horizontal elongated bars, as they appear through and between the friction-rollers in the boxes at the top and bottom. Fig. 3 is a side view of the gallery, showing the friction-rollers immediately above and on the horizontal arms, (to which the legs are attached,) secured to the movable sides, and handles or rings for pulling them out. Fig. 5 is a detailed view showing the mode of fastening the horizontal arms to the bottom joist or beam, and the manner of connecting the legs with the arms. Fig. 6 is a detailed view showing the position of the friction-rollers at the bottom of the movable sides on the horizontal arms. Fig. 7 is a detailed view showing the end of the horizontal elongated bar as it appears through and be-

tween the friction rollers in the box, and a bar with its end turned, forming a shoulder to prevent it from slipping through when drawn out.

My improvement has reference to a mode of enlarging portable daguerrean galleries or houses, when desired, in as convenient and simple manner as possible, with comparative ease and very little exertion and expense. For instance, if the operator should find himself crowded from want of space in the gallery, and wishes to obtain more room for his operations, he is unable to do so unless he has provided for this contingency, and then considerable aid and manual labor is required in the enlargement or extension of the gallery, in adjusting the sides, ends, flooring, and framework to their proper places, which is very inconvenient in the present mode of doing it, and sometimes difficult when the parts become warped from wear and tear in the usage. If provision has not been made, the operator may find himself in a locality where probably material is not convenient and accessible to. If otherwise, considerable delay and expense must be incurred before the same can be got ready. My improvement, which is intended to obviate this difficulty and inconvenience, is as follows: In the construction of the gallery I make the movable sides whole or in one piece, as it were, having three horizontal elongated bars attached to the bottom of each side and near the ends, sliding through and between friction-rollers in boxes secured to a joist underneath the flooring. At the top and about the center of the movable sides are two elongated bars attached to each side, passing underneath the ceiling joists in friction-roller boxes. When the gallery is to be extended, by catching hold of the rings or handles on the outside of the movable sides and pulling they are brought out to the extent of the length of the bars, being prevented from slipping through the boxes by a shoulder, C, on the end of each, consequently the hinged roofs under the eaves of the gallery, which were vertical, hanging in a lapping position over the movable sides, are raised up to a position parallel with the slope of the stationary roof. The movable ends and flooring are then placed in their proper places, and the whole is then as complete and substantial as if the gallery had not been enlarged, which is an advantage over those not having this arrangement, as the



whole is constructed and provided beforehand.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct my gallery A of an ordinary house-like form, the framing, sides, ends, flooring, and roofing to be of light material as possible, having a suitable number of windows and doors, with skylight-openings on the roof. The movable sides *g* are framed and made whole or in piece, as it were, independent of the gallery. The movable ends *i* and flooring *j* are made in the same manner. The sides *g*, when drawn in or closed up, may be held securely to the ends of the gallery by a hasp or hook, or any suitable mechanical means most convenient, the same as when drawn out and movable end pieces, *i*, and flooring *j* are put in their proper places. The dimensions of the gallery are not limited to any particular size, but to be optional with the director in the construction of them; the extent to which the sides are drawn out the same. The movable end pieces *i* have two small pins, *k k' k k'*, on the edges *l l*, which fit in holes *m*, made to receive them on the edge *l* of the ends of the gallery, so as to keep them in place when joined on for enlargement. *h* are the movable roofs, hinged immediately under the eaves of the gallery, and, when the sides *g* are closed up, hang down in a vertical position against the sides, and when extended out they are raised up to a position parallel with the slope of the stationary roof. C are the elongated sliding bars, two of which are connected in a substantial manner to each movable side *g* at the bottom near the ends, passing underneath the flooring between the joists, through and between friction-rollers in boxes D, fastened on the side of the joist about one-third of the width from the edge of the gallery. Each end of the bars C has a shoulder, which prevents them from slipping through the boxes, as seen more clearly in Figs. 2 and 6, when the sides

*g* are extended out. At the top and about the center of the sides *g*, only one sliding bar is necessary, which extends immediately underneath the ceiling-joists through friction-boxes, the same as below.

B are the legs which support the gallery, having horizontal arms B' projecting out a little beyond the extent to which the sides are drawn out, with metal plates on each side, forming a shoulder at the ends and fastened to the side of the bottom joist of the framing by means of screw-bolts, as seen in Fig. 5. The arms B' are mortised out on the sides near the ends to receive the legs B, which are double-tenoned on the top to fit them, so as to be slipped on and off as occasion may require, the legs being planted firmly in the ground. If there is danger of the gallery swagging down or it is not steady enough by reason of its weight straining the arms too much, the arms may be of one piece, extending from leg to leg, and bolted underneath to the bottom joist of the framing. The arms are placed immediately under and opposite the friction-rollers E, attached to the movable sides *g*, forming a bearing and support, and enabling the sides to be drawn out without straining or much labor. *f* are the handles or rings secured to the sides for the purpose of pulling them out when desired.

Like letters indicate corresponding parts in all figures of the drawings.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The enlargement of a portable daguerrean gallery or house by means of the elongated sliding bars C, friction-roller boxes D, movable sides *g*, and friction-rollers E, as arranged and operating substantially in the manner herein specified.

SAMUEL WEAVER.

Witnesses:

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