(No Model.)

B. C. KEYS & A. J. SLAUGHTER.

PORTABLE BARN.

No. 302,000. Patented July 15, 1884.

Fig. 1.

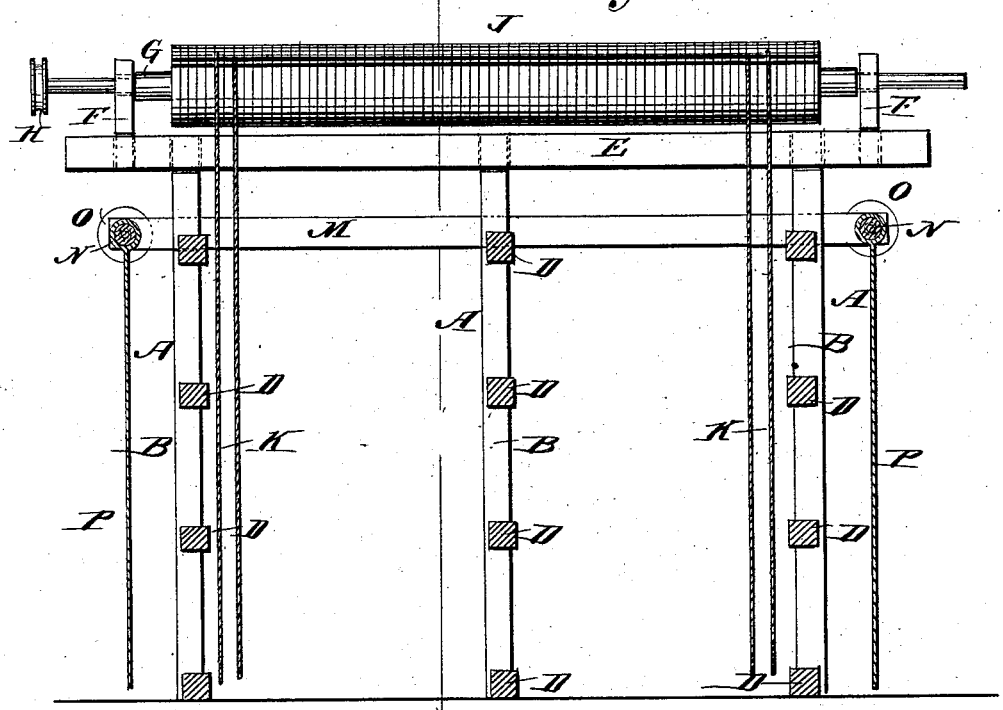
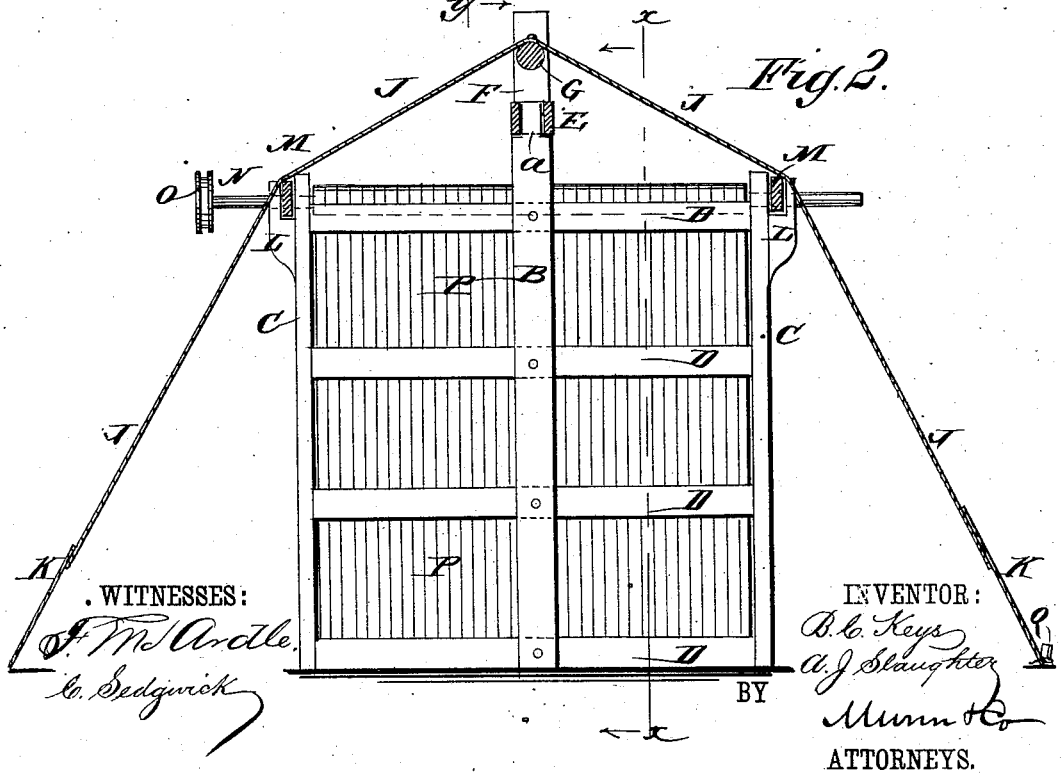


Fig. 2.



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BENJAMIN C. KEYS AND ANDREW J. SLAUGHTER, OF MURRAY, KENTUCKY.

PORTABLE BARN.

SPECIFICATION forming part of Letters Patent No. 302,000, dated July 15, 1884.

Application filed May 16, 1884. (No model.)

To all whom it may concern:

Be it known that we, BENJAMIN C. KEYS and ANDREW J. SLAUGHTER, both of Murray, in the county of Calloway and State of Kentucky, have invented a new and Improved Portable Barn, of which the following is a full, clear, and exact description.

The object of our invention is to provide a new and improved portable barn or like structure which can be erected or taken down very easily and rapidly and folded very compactly when not in use for transportation.

The invention consists in the combination, with a frame, of rollers journaled on the same, and of pieces of fabric or analogous material secured on the rollers, which fabric, &c., forms the sides, roof, and ends of the portable barn or other structure.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a longitudinal sectional elevation of our improved portable barn on the line *x x*, Fig. 2. Fig. 2 is a cross-sectional elevation of the same on the line *y y*, Fig. 1.

The barn-frame is formed of three or more transverse sections, A, each formed of a center post, B, and two lower side posts, C, united by horizontal bars D. The center posts, B, are provided at their upper ends with the tenons *a*, adapted to fit in mortises in a longitudinal central top beam, E, or between two flat beams forming the central top beam. The said central top beam projects beyond the ends of the frame; and on each end of the said central top beam a short standard, F, is secured, in which the ends of a roller, G, are journaled, which roller is parallel with and above the top beam, E. The roller is provided at one end with a pulley, H, for turning it. A piece, J, of sail-cloth, rubber, oil-cloth, or analogous material is secured at its middle to the roller G, and to the side edges of the said cloth bracing-ropes K are secured. Each side post, C, is provided at its top with a notched bracket, L, on the outer surfaces in which notched brackets the side top bars, M, are held, which also project beyond the ends of the frame. In the projecting ends of the bars M horizontal end rollers, N, are journaled, each roller being provided on one end with a pulley, O. On each roller N a piece, P, of sail-cloth, rubber cloth, oil-cloth, or analogous material is fastened.

The barn is erected in the following manner: The frames A are erected, the tenons *a* passed into the beam E, the beams M placed on the brackets L, the rollers are adjusted in their proper positions, and the cloths J and P are unwound. The cloths P hang down vertically, and the cloth J rests on the side top bars, M, and is stretched by means of ropes K, the ends of which are secured to stakes Q, driven into the ground. When the coverings J and P are not to be used, they are wound on the rollers G and N.

In place of fastening the ends of the covering to stakes driven into the ground, the ends of the covering can be secured to the upper longitudinal beam M, or to the bottom beams, as may be desired. Brace-ropes may be provided, which are attached to the end beams and to stakes in the ground, to prevent the portable barn from being blown over by sudden gusts of wind.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. In a portable barn or other structure, the combination, with a frame, of a roller journaled on the top of the same, and a piece of fabric or analogous material secured to the said roller, substantially as herein shown and described.

2. In a portable barn or other structure, the combination, with a frame, of a roller journaled in the top and a roller journaled at each end, and of pieces of fabric or analogous material secured on the rollers, substantially as herein shown and described.

3. In a portable barn or other structure, the combination, with the frames A, each having a center post and two side posts, a top beam uniting the center posts, and top beams uniting the side posts, of a roller journaled above the center beam, and of fabric or analogous material secured on the said roller, substantially as herein shown and described.

4. In a portable barn or other structure, the combination, with the frames A, each having a center post and two side posts, of the top beam E, uniting the center posts, B, the top beams M, uniting the side posts, C, the roller

G, journaled above the beam E, the rollers N, journaled in the ends of the beams M, and of fabric or like material secured on the rollers, substantially as herein shown and described.

5. In a portable barn or other structure, the combination, with a frame, of rollers journaled in the same, fabric or other analogous material secured on the rollers, and pulleys mounted on the ends of the rollers, substantially as herein shown and described.

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