

B. JACKSON.
Saggers.

No. 149,660.

Patented April 14, 1874.

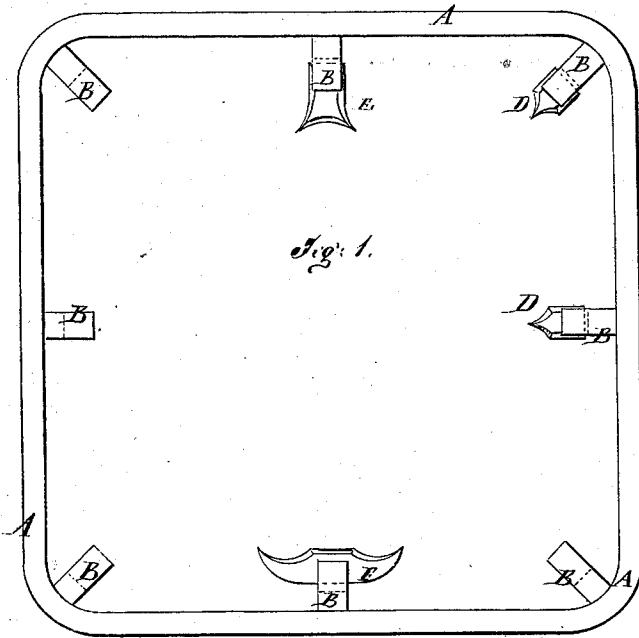


Fig. 1.

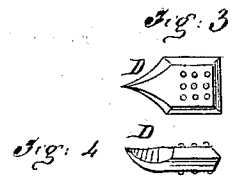


Fig. 3.

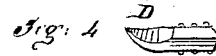


Fig. 4.

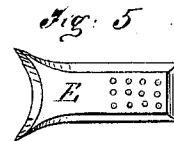


Fig. 5.



Fig. 6.

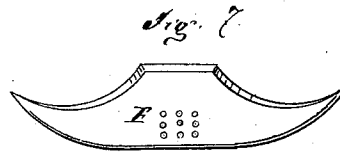


Fig. 7.

Fig. 2.

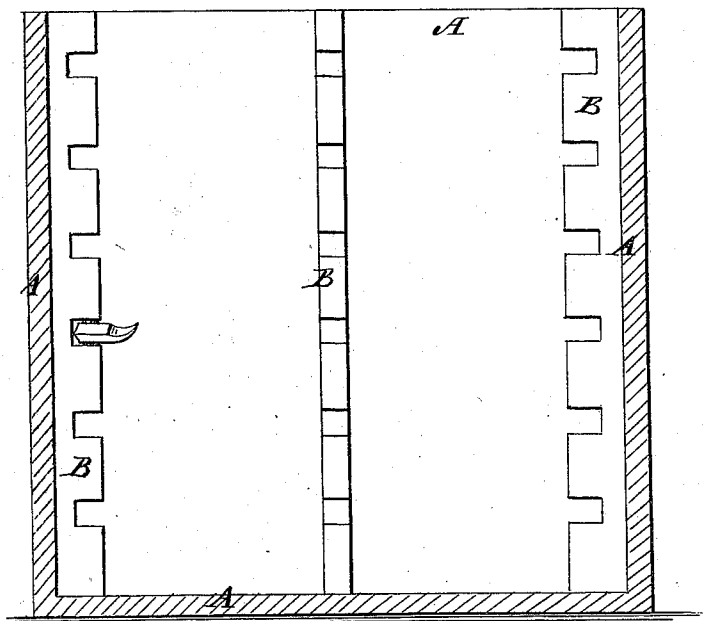
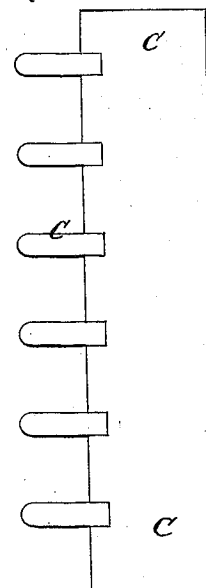


Fig. 8.



Witnesses:

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UNITED STATES PATENT OFFICE.

BENJAMIN JACKSON, OF GEDDES, NEW YORK.

IMPROVEMENT IN SAGGERS.

Specification forming part of Letters Patent No. **149,660**, dated April 14, 1874; application filed September 27, 1873.

To all whom it may concern:

Be it known that I, BENJAMIN JACKSON, of Geddes, Onondaga county, State of New York, have invented certain new and useful Improvements in Saggers for Burning Ceramic Ware, of which the following is a specification:

This invention relates to improvements in saggers employed in the process of backing or burning crockery-ware, for the purpose of protecting the ware from the direct action of the fire and the injurious products of combustion. This invention consists in constructing a sagger with a series of internal vertical ribs or bars permanently attached to the walls of the same, and provided with notches or recesses, which are adapted for the reception of detachable pins, designed to support the ware to be burned, a sagger constructed with permanent ribs and detachable ribs being superior, in many respects, to the plan heretofore practiced of supporting crockery-ware in saggens by means of devices which are independent from the sagger, and are placed into the same together with the ware to be burned.

In the accompanying drawings, Figure 1 is a plan or top view of a sagger constructed according to my invention. Fig. 2 is a vertical section of the same. Figs. 3, 4, 5, 6, and 7 are detail views of different forms of supporting-pins. Fig. 8 represents a "templet," or implement for forming the notches in the ribs of the sagger, and for applying the ribs in position.

Before entering upon a description of my invention, it is proper to give a brief statement of the state of the art to which it pertains. As heretofore practiced, the common mode of supporting pottery in saggens is to insert pins through openings in the walls of the same, or, instead of this, supporting rings or thimbles are employed, which are made entirely distinct and separate from the sagger, and are designed to be successively inserted or packed into the same in groups or tiers. This mode of charging saggens is defective, as a large amount of available space is lost, or not utilized, and, furthermore, greater labor and skill is required to perform the filling operation. As heretofore also practiced, the crockery-ware to be burned or backed is placed in ribbed bars or rings, which are connected

together to form a frame by top and bottom heads or disks, said frame being then placed into the sagger, from which it is entirely separate or distinct.

My invention is designed to remedy the defects incidental to the present modes of supporting crockery-ware in saggens; and it consists in providing the body of the sagger A, which is of any preferred form or construction, with permanent internal ribs B, in contradistinction to separate bars, rods, or rings. Said ribs B are located at the junction of the side and end walls of the sagger, and at the center of the walls, as shown, or they may be arranged in any other preferred way, to be determined by the size or capacity of the sagger. The ribs B are molded or made of clay, and are provided with a series of notches, *a*, which are formed by means of an implement or templet, C, as represented in Fig. 8 of the drawings. Said implement is embedded into the ribs, when in a plastic state, to form the notches, and then the ribs are secured to the walls of the sagger by a suitable "slip."

The ribs applied to the walls of the sagger, as shown, perform the double function of receiving the pins which support the crockery-ware and of materially strengthening the sagger.

The pins for supporting the ware to be burned are made separate or detachable from the ribs of the sagger, and are of various forms, as represented in the drawing.

The single-pronged pins D are designed to be inserted into the ribs at the angles of the sagger, and the double-pronged ribs into the central ribs, as shown in Fig. 1 of the drawing. This disposition of the pins will permit a lesser number of pins to be employed for supporting an increased number of articles, such as plates, saucers, &c., for the latter may be arranged in groups in the same tier, so that the double-pronged pins will bear against or support two different articles.

The pins F (represented in detail in Fig. 7) are designed to be used in connection with oval articles.

In order to cause the pins to retain their seats in the notches of the sagger-ribs, I provide the same with serrated or ribbed surfaces, which will, however, not prevent the ready

removal of the pins by a simple tilting of the sagger, or by hand. The weight of the articles resting on the pins will be sufficient to cause the same to take a firm hold in the notches of the sagger-ribs.

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

A sagger, A, for burning ceramic ware, provided with internal permanent notched ribs B, adapted for the reception of detachable supporting-pins, as herein shown and described.

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Witnesses:

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