W. E. RIVERS.

SAGGAR.

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941,044.

Patented Nov. 23, 1909.

Fig. 1.

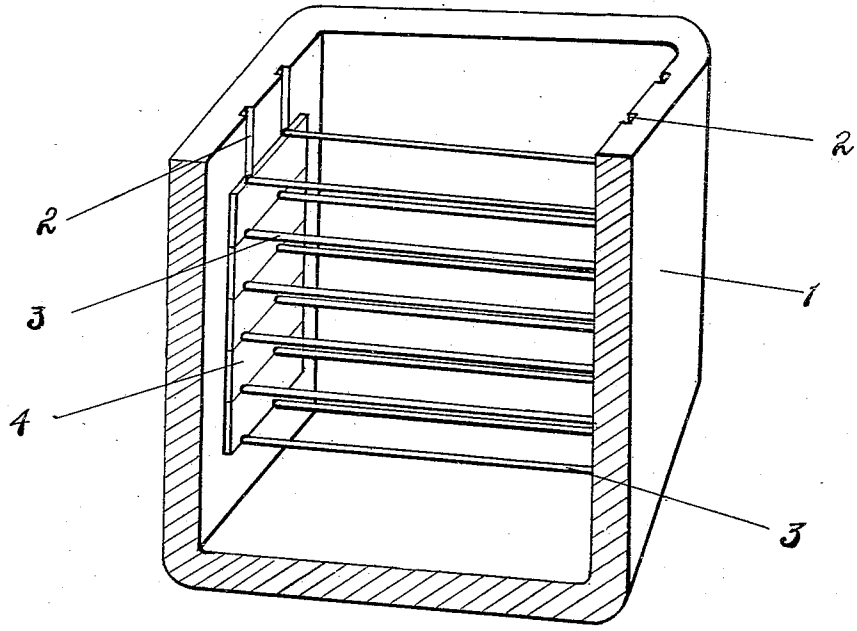
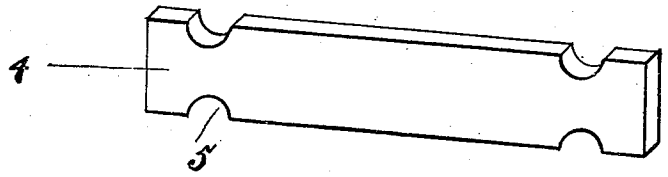


Fig. 2.



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SAGGAR.

941,044. Specification of Letters Patent. Patented Nov. 23, 1909.

Application filed June 11, 1903. Serial No. 501,452.

To all whom it may concern:

Be it known that I, WILLIAM E. RIVERS, a subject of the King of Great Britain, and a resident of Old Bridge, in the county of Middlesex, in the State of New Jersey, United States of America, have invented certain new and useful Improvements in Saggars, of which the following is, taken in connection with the accompanying drawing and reference-numerals marked thereon, a complete, concise, and accurate description or specification.

My invention comprehends certain improvements in saggars, such as are employed for holding tile, brick, and analogous articles, formed of clay or other material during the process of firing; and the object of my invention, is to provide a saggar of improved and simplified construction and of increased strength and durability over saggars commonly in use of which I have knowledge.

Referring to the accompanying sheet of drawing, in which I have illustrated an embodiment of my invention, I will proceed to describe in detail the construction and manner in which my improved saggar is made, and in which:—

Figure 1 is a perspective view thereof showing the supporting pins or rods in position to receive the tiles or other articles. Fig. 2 is a like view of one of the notched spacing or supporting strips.

The saggar —1— which may be molded, stamped or pressed out is provided with a plurality of vertical grooves —2— which preferably extend from the top of the saggar to a point near the bottom thereof. These grooves are formed when and during the same operation that the saggar is being molded and formed.

—3— indicates a plurality of supporting pins or rods upon which the tile, brick or analogous articles are placed preparatory to the firing operation. These supporting pins or rods are of sufficient length to extend from side to side of the saggar and their ends are held from lateral displacement by being inserted in the grooves —2—.

—4— indicates separating and supporting strips which are provided with side notches or depressions —5— in which the ends of the pins or rods —3— are supported and between which they are locked. These separating strips may be of any length or width desired to meet the requirements of the varying thicknesses of articles to be supported thereby and therebetween.

A saggar of my improved form does not require additional cutting or other manipulation subsequent to its leaving the mold to fit it to accommodate the shelves or supporting members; thus lengthening and extending the life or service of the saggar beyond the life of those which require either perforating, cutting or notching in order to form suitable supports for the shelves or supporting rods, the latter having a tendency to weaken the structure.

It will be apparent from the above description that I have produced a saggar of a very flexible character, so far as one is enabled to adjust the height of or distance between the tile supporting members to accommodate the tile or other articles of various heights. It will also be noted that the notches in the strips lock the pins or rods firmly in the grooves and prevent them from moving or rocking during handling, or the movement of the saggar to and from the kiln.

Another advantage of my invention is that the grooves may be, and preferably are made, as has been pointed out, in the process of forming the saggar itself, thus simplifying the method of manufacturing, and reducing the cost.

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

1. The combination of a saggar having walls provided with vertical parallel grooves, the upper ends of which are opened at the top, with means for supporting articles to be fired, said means consisting of supporting members extending across the interior of the saggar, and detachably engaged in said grooves, and supporting and separating strips, provided with notches, in which the ends of said supporting members rest.

2. The combination of a saggar provided with grooved walls, with means for supporting articles to be fired, said means comprising supporting and separating members extending across the interior thereof, and having their ends terminate in said grooves, and strips supporting and separating the said supporting members.

3. In a saggar, the combination of supporting members extending across the interior thereof; means for supporting and locking the ends of said supporting members

from displacement, said means comprising notched separating strips, in the notches of which the ends of the supporting members are supported.

4. In a saggar, the combination of a plurality of supporting rods extending across the interior thereof; retaining means in said saggar for preventing lateral displacement of said rods, and means for separating and supporting the rods, said means comprising notched strips engaging and supporting their ends.

5. A saggar provided with a plurality of oppositely disposed grooves in its walls extending to the top; supporting members extending across the saggar and engaging said grooves; and supporting and separating members interposed between the first named supporting members.

6. As a new article of manufacture, a saggar provided with grooves open at the top; removable supporting members for supporting articles to be fired, said members engaging the grooves and extending across the saggar; and members interposed between and supporting said removable supporting members.

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