

Halladay & Ruggles,

Iron Grinding-Plate.

No. 90,531,

Patented May 25, 1869.

Fig. 1.

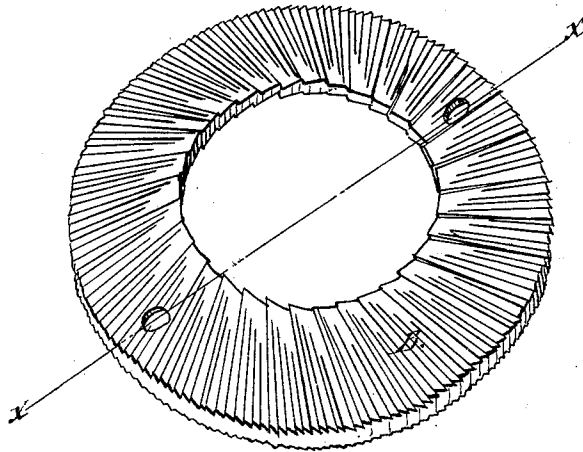
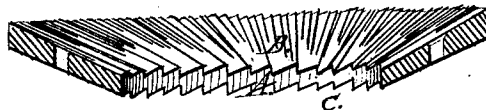


Fig. 2.



Witnesses:

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Att'y

United States Patent Office.

DANIEL HALLADAY AND BURTON H. RUGGLES, OF BATAVIA,
ILLINOIS.

Letters Patent No. 90,531, dated May 25, 1869.

IMPROVED IRON GRINDING-PLATE.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern:

Be it known that we, DANIEL HALLADAY and BURTON H. RUGGLES, of Batavia, in the county of Kane, and State of Illinois, have invented a new and useful Improvement in Iron Grinding-Plates; and we do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

Figure 1 is a perspective view of the upper side of the grinding-plate.

Figure 2 is a sectional view of the grinding-plate at the line X X.

Like letters indicate like parts in each figure.

The nature of this invention relates to an improvement in iron grinding-plates, and consists in constructing them with their upper and under surfaces similarly grooved or serrated, so that the upper and under plates in the mill can be made to take the place of each other as the grinding-surfaces become worn by use.

In the drawings, A represents an annular under grinding-plate of the usual conical form, and provided

with the serrations or grooves B, the under side of said grinding-plate being provided with similar serrations, as shown at C in fig. 2, the upper plate being a counterpart of the one described.

When the under surface of the upper plate and the upper surface of the under plate become worn from use, the expense of new plates is avoided by reversing their positions.

Although these plates are principally used for grinding various kinds of grain, they are not designed exclusively for that purpose, but can be used equally well for grinding coffee, spices, and similar products.

What we claim as our invention, and desire to secure by Letters Patent, is—

The method of constructing grinding-plates, with their upper and under surfaces serrated, substantially as described, and for the purposes hereinbefore specified and set forth.

DANIEL HALLADAY.
BURTON H. RUGGLES.

Witnesses:
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