(No Model.)

F. STOECKEL & S. FAHRINGER.

SLATE PICKER.

No. 500,302. Patented June 27, 1893.

Fig 1

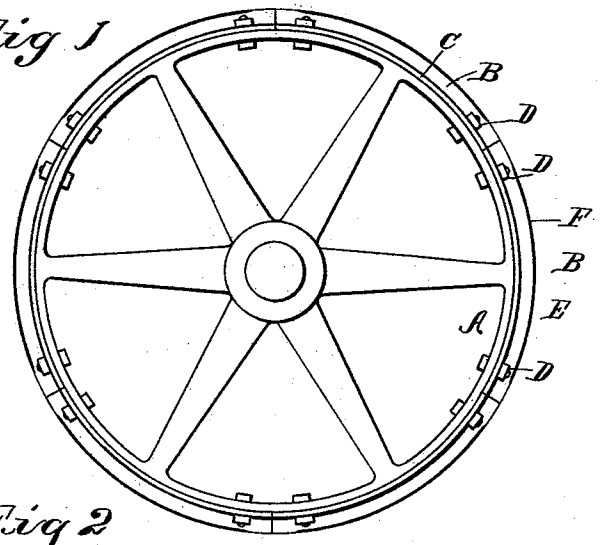


Fig 2

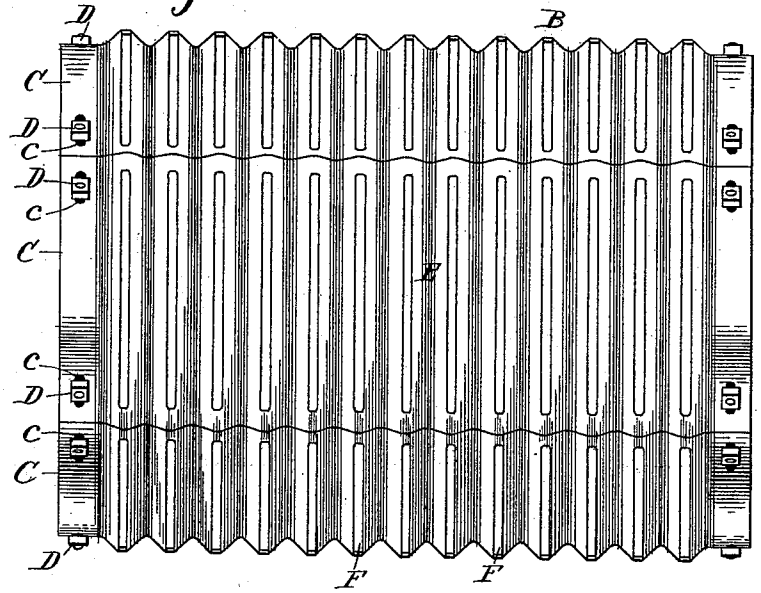


Fig 3

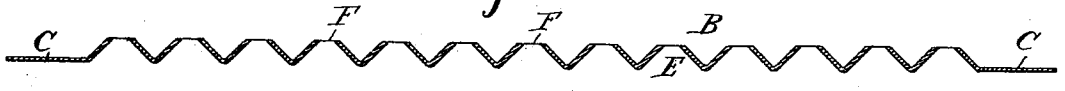
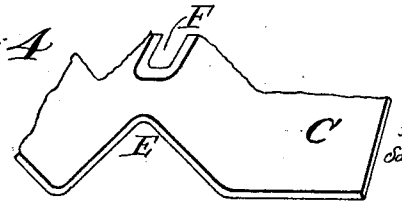


Fig 4



WITNESSES:

C. C. Burdine.

L. S. Pearson.

INVENTOR S

Frederick Stoeckel

Samuel Fahringer

BY

W. S. Phillips

ATTORNEY.

UNITED STATES PATENT OFFICE.

FREDERICK STOECKEL AND SAMUEL FAHRINGER, OF MAHANOY CITY, PENNSYLVANIA.

SLATE-PICKER.

SPECIFICATION forming part of Letters Patent No. 500,302, dated June 27, 1893.

Application filed February 7, 1893. Serial No. 461,371. (No model.)

To all whom it may concern:

Be it known that we, FREDERICK STOECKEL and SAMUEL FAHRINGER, citizens of the United States, residing at Mahanoy City, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in Slate-Pickers; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improvement in slate picker segments and it consists in the construction and arrangement of parts hereinafter described and claimed.

The aim and purpose of the invention is the provision of an improved segment for cylindrical pickers, used to separate flat slate from coal and one which will be cheaply manufactured and strong and durable. These objects are attained by the construction illustrated in the accompanying drawings wherein like letters of reference indicate corresponding parts in the several views and in which—

Figure 1 is an end view of a cylinder with the segments applied. Fig. 2 is a side view of the same. Fig. 3 is a longitudinal section of a segment, and Fig. 4 is a detail view of a section of segment.

In the drawings A represents a cylindrical frame and B the segments. These segments are formed of either wrought iron, steel or other suitable metal each being formed in one integral part and either rolled or pressed into shape. They consist of the flat ends C having elongated openings *c* permitting the securing bolts D to pass therethrough and allowing the same to draw the segments close onto the cylinder. Between the ends C which have the proper curvature, is the corrugated web E formed integral with the ends, the corrugations being V shape and extending entirely across the segment transversely. The outer apex of the V-shaped corrugations are cut away from points adjacent the ends of the corrugations, thereby forming elongated openings F all of uniform size. The uncut portions of the web form side bars for uniting the several corrugations and to give the requisite rigidity to the segment. The web is curved like unto the ends, so that the several assembled segments will constitute the covering of the cylinder. By forming the segments as described and in one integral piece, they act as trusses or braces against the load to be carried and in forming the V shaped corrugations we round off the inner apexes of the same so that the coal will readily slide thereover.

The operation of the device is well understood. The flat slate passes into the V-shaped groove and falls out through the slot or openings therein while the coal passes through the cylinder and is discharged therefrom at the end. It is to be understood that the size of segment and slots therein may be varied when required.

We are aware that many minor changes in the construction and arrangement of the parts can be made and substituted for those herein shown and described without in the least departing from the nature and principle of the invention.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

A slate picker segment consisting of a single integral metallic plate having flat curved ends formed with elongated openings, a corrugated web between the ends having V-shaped corrugations, formed with their outer apexes cut away from points near the sides and their inner apexes rounded, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

FREDERICK STOECKEL.
SAML. FAHRINGER.

Witnesses:
M. L. SMITH,
C. T. KLEINDIENST.