

G. F. BARD.
Lags for Pickers.

No. 146,743.

Patented Jan. 27, 1874.

Fig. 2.

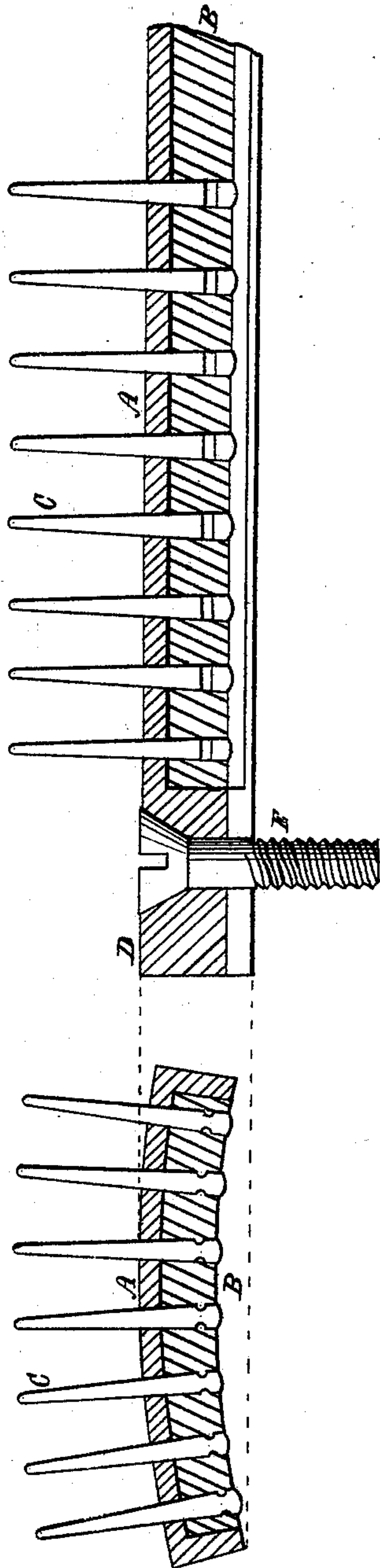


Fig. 1.

Witnesses
Albert F. Park
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UNITED STATES PATENT OFFICE.

GEORGE F. BARD, OF NORWICH, CONNECTICUT.

IMPROVEMENT IN LAGS FOR PICKERS.

Specification forming part of Letters Patent No. **146,743**, dated January 27, 1874; application filed February 14, 1872.

To all whom it may concern:

Be it known that I, GEORGE F. BARD, of Norwich, in the county of New London and State of Connecticut, have invented certain Improvements in Lags for the Cylinders of Shoddy-Pickers and other like machines, of which the following is a specification:

My invention relates to lags for pickers; and consists in a lag, made as herein described, and filled with tapering teeth secured at the back of the lag-plate by means of soft metal.

Figure 1 is a transverse section of the lag, showing the hard and soft metals, and tapering teeth grooved or scored at the base, that the soft metal may take a better hold. Fig. 2 is a longitudinal section of the same.

A is the face or shell of the lag, which should be made of cast hard metal, malleable iron being preferable. Its exterior sides are shaped like the ordinary lag, and its back, which lies upon the cylinder, is hollowed out, leaving a walled space, and the face of sufficient thickness to possess the requisite strength; and though this face small holes are made, into which the tapering teeth are driven from the back side, the bases of the teeth coming even with the back of the lag. The ends of the lag are provided with screw-holes. A former, shaped like the part of the cylinder upon which the lag lies, is placed upon the back of the lag and the soft metal poured in, the teeth having been previously driven into place.

This lag of soft and hard metal possesses greater strength than the one of all soft metal,

and upon breaking any of the teeth the lag may be cast into the fire and the soft metal melted out, when new teeth can be again inserted in the same shell.

With my construction no time need be consumed in arranging the teeth in a mold, as they are firmly fixed in position before the metal is poured in.

The teeth C are tapered for convenience of driving, and grooved or scored at their bases for additional security. D are the ends of the lag; and E, holes therein, by which the lag is bolted to the cylinder.

I am aware that it is not new to hold teeth by soft metal; but I am not aware that an iron lag has been recessed at its back and perforated for the reception of teeth.

I provide hard metal upon the working side and around the base of the teeth to prevent lateral strain, and soft metal at the back of the teeth, which are scored to keep them more firmly in position.

I claim as my invention—

A cast-metal lag recessed at the back, as described, and provided with holes for the teeth and fastening-screws combined with tapering teeth, constructed as described, and and with a soft-metal filling in the back of the lag for holding the teeth, all arranged as described, and for the purposes set forth.

GEORGE F. BARD.

Witnesses:

A. F. PARK,
WEBSTER PARK.