(No Model.)

T. WRIGLEY.

DRESSING TOOL FOR EMERY WHEELS AND GRINDSTONES.

No. 430,204. Patented June 17, 1890.

Fig. 1

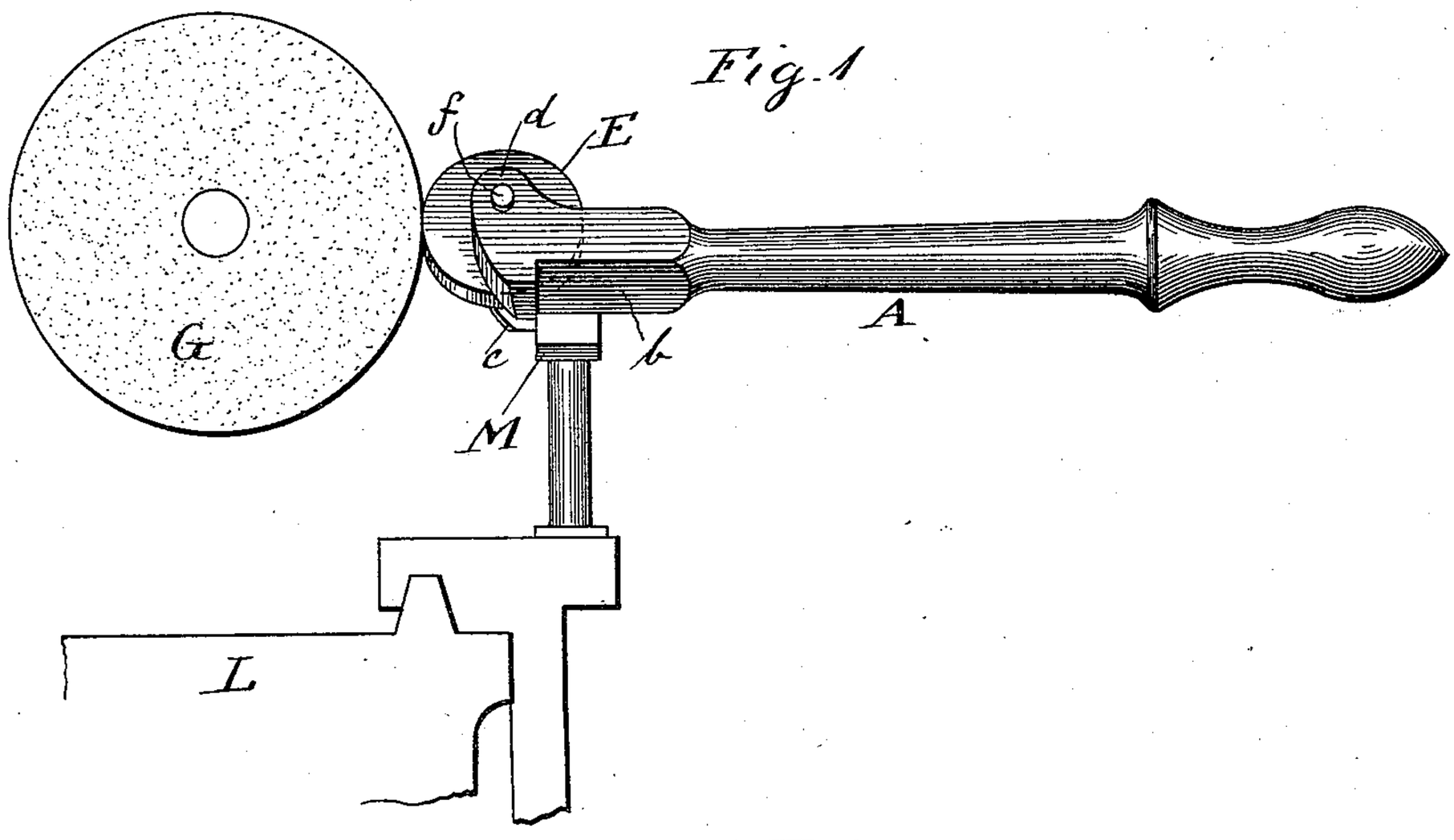
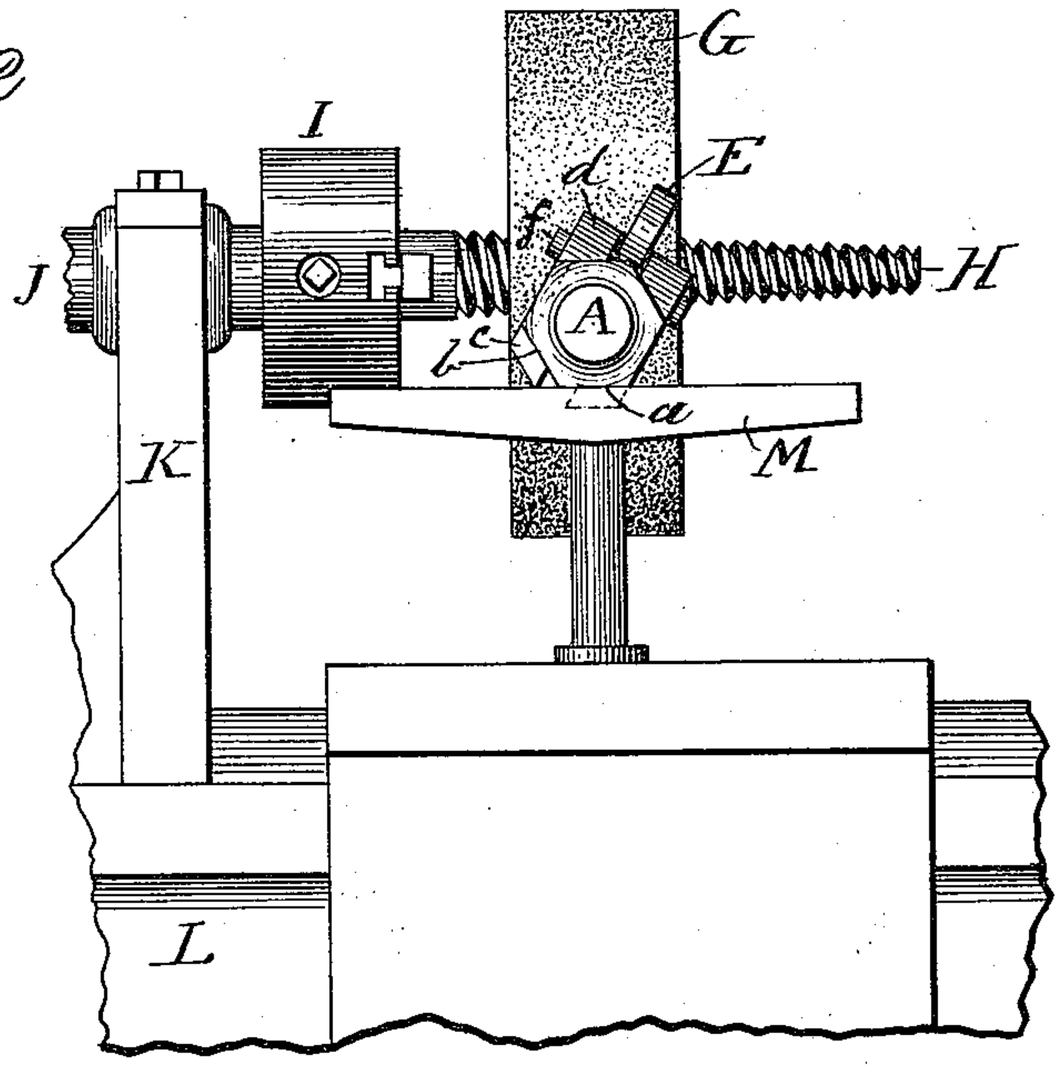


Fig. 2



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UNITED STATES PATENT OFFICE.

THOMAS WRIGLEY, OF OAK PARK, ILLINOIS.

DRESSING-TOOL FOR EMERY-WHEELS AND GRINDSTONES.

SPECIFICATION forming part of Letters Patent No. 430,204, dated June 17, 1890.

Application filed September 25, 1889. Serial No. 325,094. (No model.)

To all whom it may concern:

Be it known that I, THOMAS WRIGLEY, a citizen of the United States of America, residing at Oak Park, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Dressing-Tools for Emery-Wheels and Grindstones, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to tools for re-dressing the circumferential surfaces of emery-wheels and grindstones, after the same have been worn irregular, to become truly circular again, and it has for its object to provide a tool that can be continuously used without resharpening, and which will accomplish its work with more ease and accuracy than devices heretofore in use for the same purpose; and with these objects in view my invention consists of a disk of hard material—such as chilled or case-hardened iron or tempered steel—pivotally secured in the slitted end of a handle having bearing-faces oblique angular to the axis of the disk for supporting the tool upon a horizontal tool-rest for the purpose of holding the disk to occupy an angular position relatively to the face of the emery-wheel or grindstone, whereby this disk will slantingly cut or peck away the surface of the rotated wheel or grindstone gradually when moved laterally in front thereof, and whereby the said disk, from its contact with the emery-wheel or grindstone being dressed, at the same time will be rotated for all parts of its circular cutting-edges to be brought into continnously successive action, as will be hereinafter more fully described and specifically claimed.

In the accompanying drawings, Figure 1 represents a side elevation, and Fig. 2 a front elevation, of the dressing-tool in position for dressing an emery-wheel.

Corresponding letters of reference in the several figures of the drawings designate like parts.

A denotes the tool-handle, the head of which is made hexagonal for providing the oblique angular faces *a* and *b*, having end shoulder-lugs *c*. To the side opposite to faces *a* and *b* this handle-head has formed eye-lugs *d*, between which and the shoulder-lugs *c* the head is slitted for inserting a disk E, made of very hard material, preferably chilled cast-iron, case-hardened wrought-iron, or tempered steel, and pivoted upon a conical pin *f*, fitted into the eyes of lugs *d*.

G is an emery-wheel secured upon a pointed and screw-threaded mandrel H, rigidly clamped in chuck I of spindle J, journaled in standards K, secured upon bed L, upon which is also secured tool-rest M in the usual manner.

It will be readily seen that the forward end of the handle A may be placed to bear upon tool-rest M with either face *a* or *b*, when the shoulder *c* will be enabled to hold the disk E against the rim of the emery-wheel G with the desired force for dressing down such wheel to the desired extent by taking a light or heavy cut. The disk E thus being held in an angular position, its laterally-advancing edge will peck off the the surface gradually without much friction from such cut, because this disk E will rotate with the emery-wheel. The disk, in the position shown, is to be moved along the face of the emery-wheel from right to left, and then for the next cut the handle is to be turned to rest on face *d* with moving the disk E from left to right, and by thus applying the disk the operating-edge is worn to a limited extent, whereby the opposite cutting-edge of disk E is simultaneously sharpened for the next dressing operation. After a disk E is worn down to be too small for further use the pin *f* is knocked out and a new disk inserted.

What I claim is—

1. The tool for dressing emery-wheels and grindstones, consisting of handle A, with a slitted head receiving and holding disk E, pivoted upon pin *f*, and in combination therewith of faces *a* and *b* to said head, the same being on oblique positions relatively to the axis of disk E, substantially as and for the purpose set forth.

2. The tool for dressing emery-wheels and

grindstones, consisting of handle A, with a slitted head receiving and holding disk E, pivoted upon pin *f*, and in combination therewith of faces *a* and *b* to said head, the same being on oblique position relatively to the axis of disk E and of shoulder-lugs *c*, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS WRIGLEY.

Witnesses:
WILLIAM H. LOTZ,
OTTO LUEBKERT.