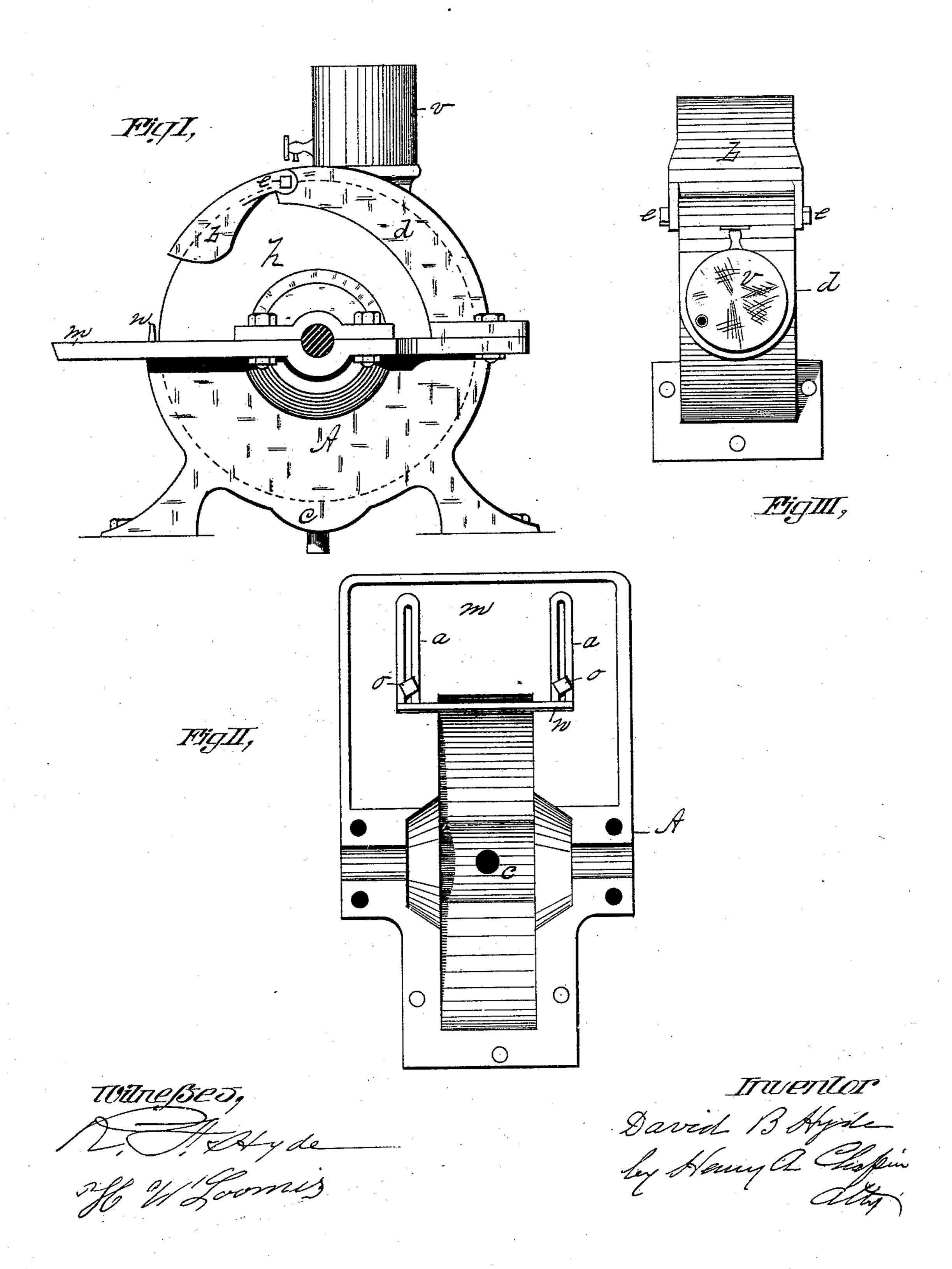
(No Model.)

D. B. HYDE.

GRINDING WHEEL FRAME.

No. 285,626.

Patented Sept. 25, 1883.



United States Patent Office.

DAVID B. HYDE, OF SPRINGFIELD, MASSACHUSETTS.

GRINDING-WHEEL FRAME.

SPECIFICATION forming part of Letters Patent No. 285,626, dated September 25, 1883.

Application filed March 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, DAVID B. HYDE, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Grinding-Wheel Frames, of

which the following is a specification. This invention relates to improvements in the construction of hooded grinding-wheel 10 frames, especially adapted to be used with wetgrinding emery-wheels, the object being to embody in a metallic frame of this description means for inclosing the lower half of the wheel in a case and providing in the latter a pocket 15 at the lowest part thereof, descending much below the interior circumferential line of the case, into which the worn-off particles of emery from the wheel will settle, together with such metallic matter as is ground off by the 20 wheel; also, to provide for the upper half of said wheel a fixed hood covering a portion of its periphery and of its sides below the latter. and having a portion of said hood adapted to be swung toward the edge of the wheel as the 25 latter is worn smaller; also, to provide a table on said frame to hold an adjustable work-rest cast integral with said frame.

In the drawings forming part of this specification, Figure I is a side elevation of a grinding-wheel frame embodying my improvements. Fig. II is a plan view of the frame, the table, and the work-guide with the hood removed and the wheel and its shaft taken out. Fig. III is a plan view of the hood removed from the frame, Fig. II.

The said frame A is provided with suitable bearings for the shaft of the wheel h, as shown, to provide for mounting said wheel in the frame, with its lower half in the latter and with a flange around its rear side, to which is bolted the fixed hood d. Said hood covers something more than one-half of the edge of the wheel h above frame A, and is provided with sides partially covering each side of said wheel, as in Fig. I. To the end of said hood is pivoted, by the bolts e e, the cap b, also covering a part of the edge and of the sides of wheel h, but leaving a portion of the periphery of said wheel exposed just above the edge of the work
or rest n on table m. By said bolts the cap b

may, after being swung to any desired position, be so fixed as to there remain until further change is required by the wearing away of the wheel. Said cap serves to protect the workman from having any water or other matter 55 thrown upon him from the wheel.

The table *m* is provided on frame A, before the edge of the wheel, to support the guide *n*, which is provided with the slotted arms *a*, through which bolts *o* pass into said table, 60 whereby said rest may be adjusted to and from the edge of the wheel.

The frame A is provided with a pocket, c, on its lower side, quite below its inner circumference, into which the parts which wear off 65 from the wheel, and metallic and other matter resulting from the grinding action of the wheel thereon, may settle, so as to be so far below the edge of said wheel that they cannot be taken up thereby and carried around on its 70 periphery, thereby filling up the pores of its cutting-surface and impeding its proper action.

A water-tank, v, is cast integral with the hood d, and provided with a suitable faucet 75 for delivering water therefrom through a suitable aperture in the hood onto the wheel thereunder.

A discharge-pipe, having suitable means for closing it and opening it, is connected with the 80 said pocket c, whereby the accumulations above named may be discharged therefrom.

What I claim as my invention is—

The within-described improved grinding-wheel case, adapted to have a grinding-wheel 85 mounted therein, and having the pocket c on its lower edge depressed below the inner circumferential line thereof, the table m, projecting from one edge, and having thereon the work-rest n, provided with the slotted arms a 90 a, whereby it is adjustably secured to said table, and the hood d, partially covering the upper edge and sides of the wheel h, and having the cap b, pivoted thereto and adjustable toward the wheel as the latter wears off, substantially as set forth.

DAVID B. HYDE.

Witnesses:

H. A. CHAPIN, B. F. HYDE.