

(No Model.)

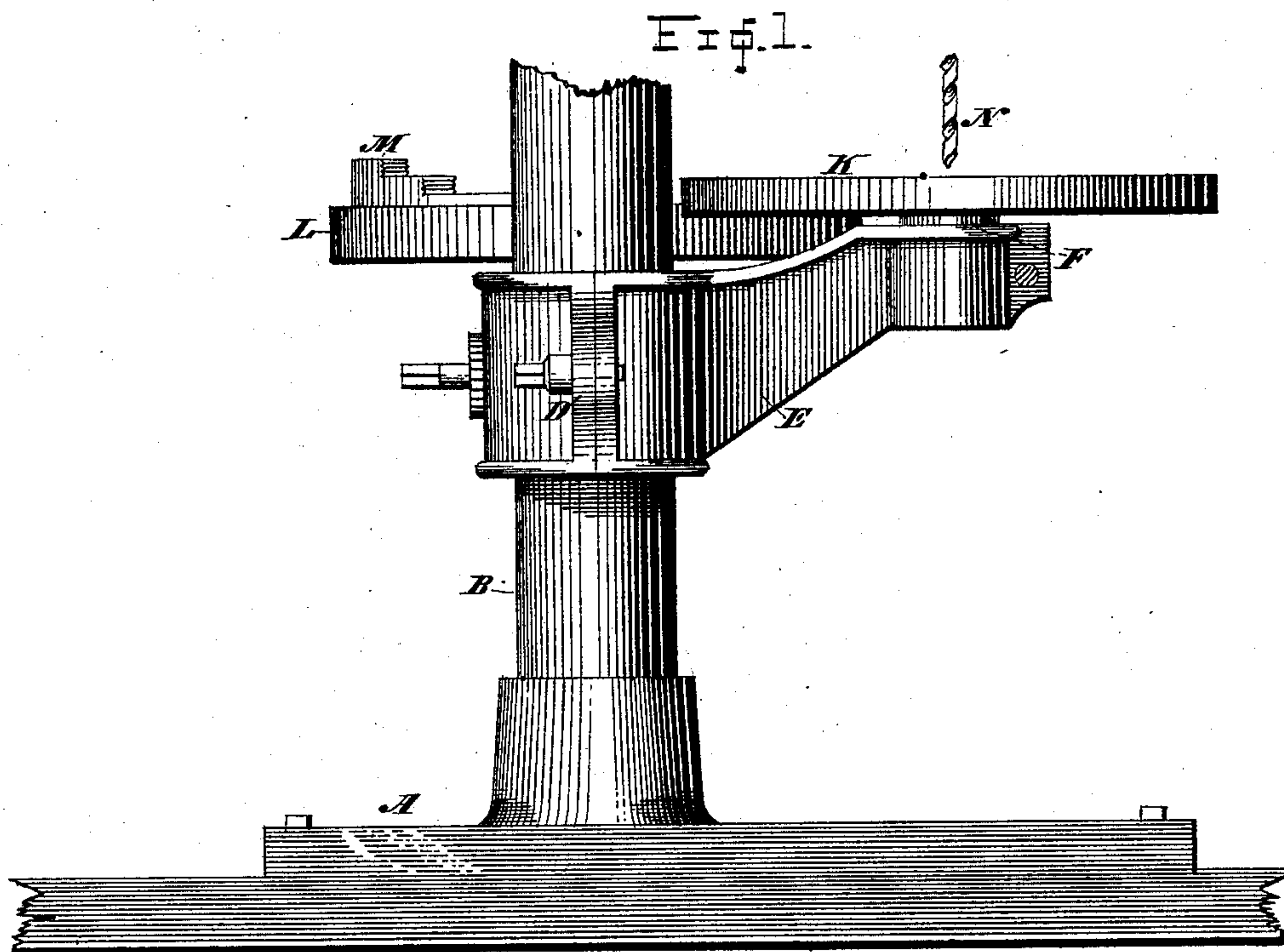
2 Sheets—Sheet 1.

J. F. WINCHELL.

DRILL PRESS.

No. 361,105.

Patented Apr. 12, 1887.



WITNESSES

A. A. Leachman
Edwin Bradford

INVENTOR

James F. Winchell
By Edwin M. Fennies
his Attorneys.

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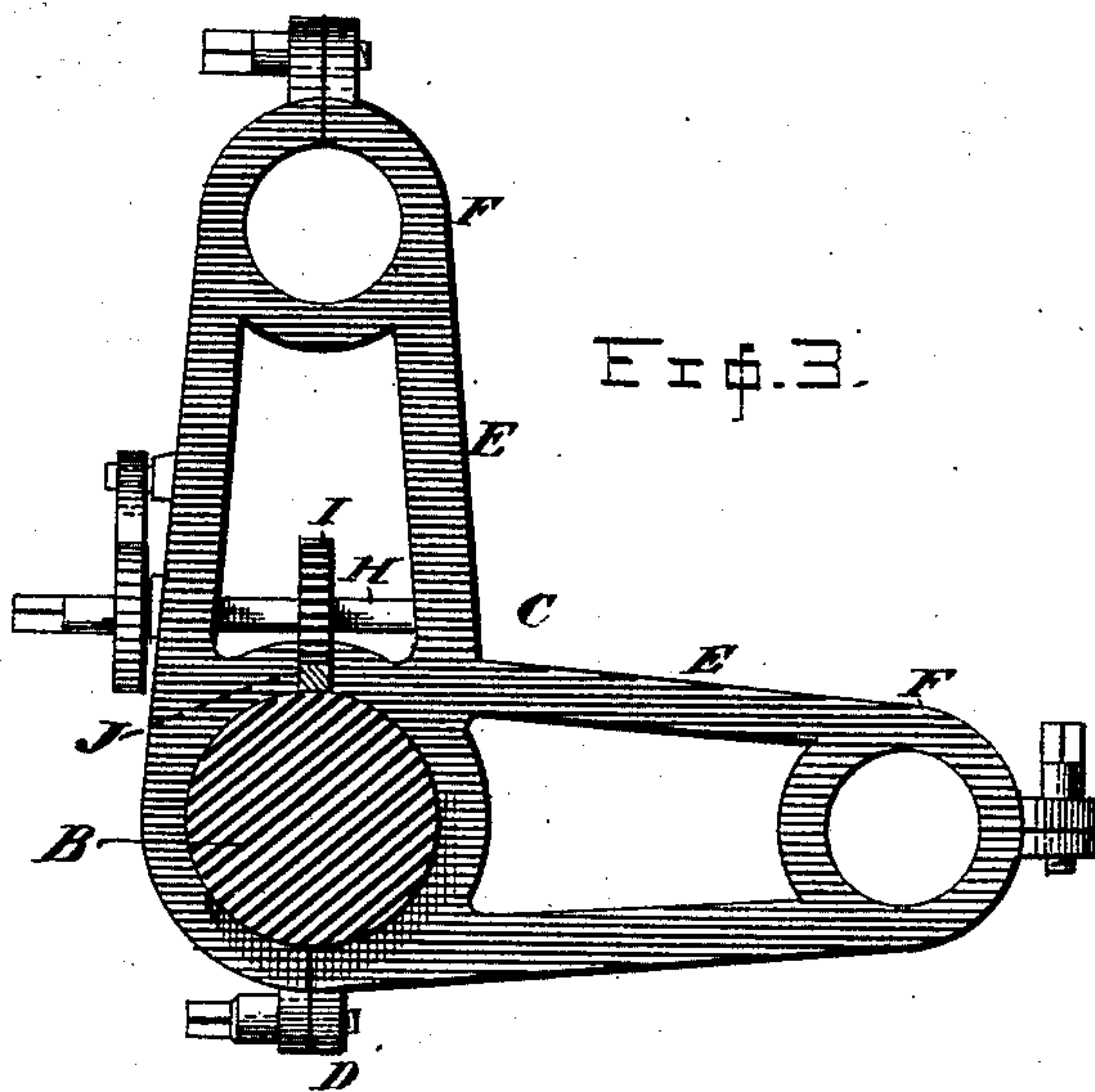
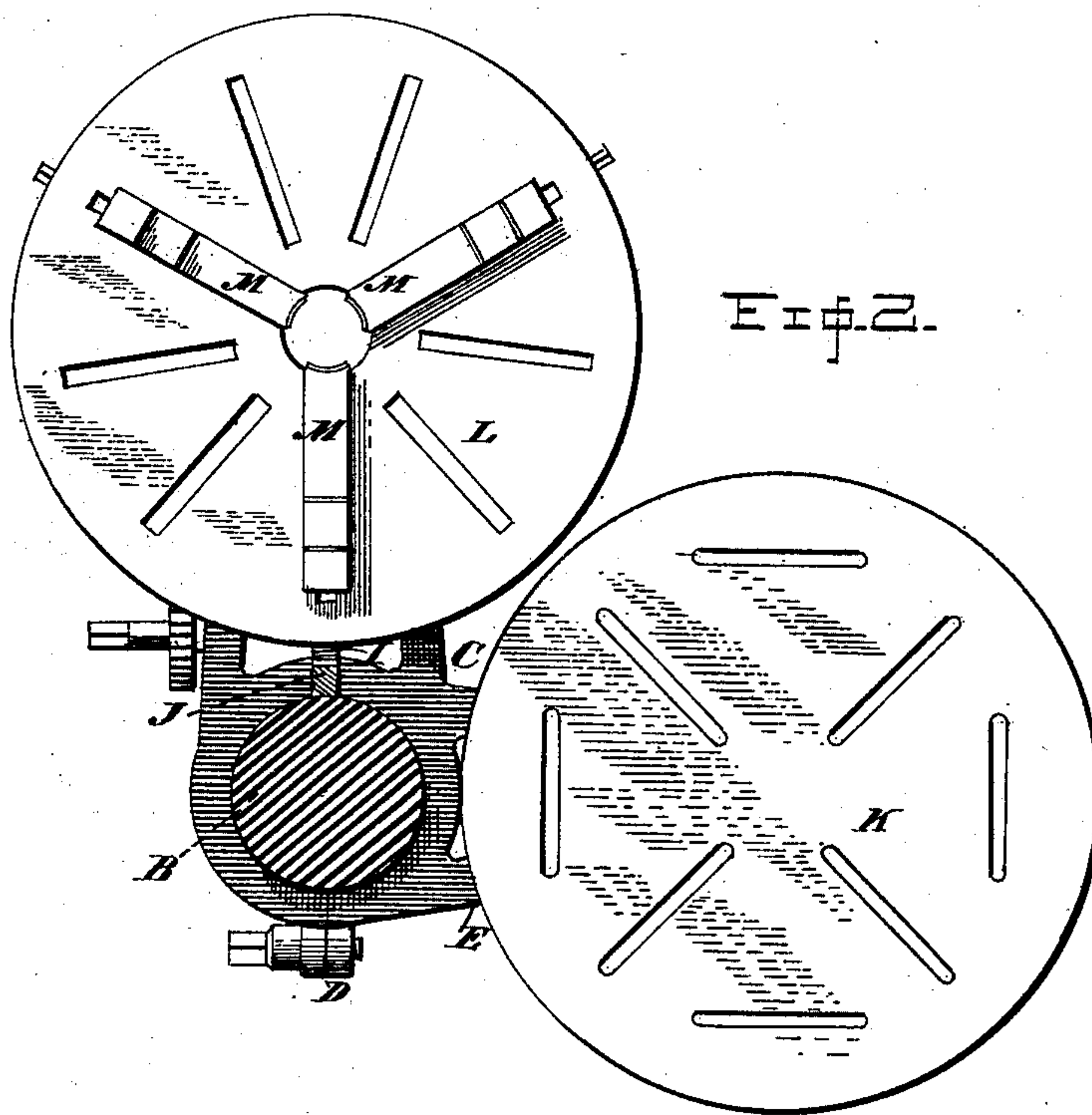
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Edwin L. Bradford

INVENTOR

James F. Winchell
By Toulmin Fenner,
his Attorney.

UNITED STATES PATENT OFFICE.

JAMES F. WINCHELL, OF SPRINGFIELD, ASSIGNOR TO LODGE, DAVIS & CO.,
OF CINCINNATI, OHIO.

DRILL-PRESS.

SPECIFICATION forming part of Letters Patent No. 361,105, dated April 12, 1887.

Application filed December 4, 1886. Serial No. 230,687. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. WINCHELL, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Drill-Presses, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in drill-presses; and it consists in constructing the work-table with a plurality of arms and a like number of tables; and the object I have in view is to provide for holding different kinds of work upon different tables, whereby, when the holding devices of one table are set, say, for holding flat work, the holding devices of the other table may be set, say, for holding angular or other shaped work, thus effecting an important saving of time otherwise lost in changing from a table having holding devices for one kind of work to a table having holding devices to hold another and different kind of work. This saving of time is also gained in case but one table is used with the bracket as now constructed and several kinds of holding devices fitted to it. Again, it almost daily happens, especially in shops where a variety of work is done, that the holding devices are set for holding a peculiar piece of work which requires time to complete; and when other and simpler work is ready for the drill-press this work must either be delayed or it becomes necessary to change the accurate adjustment of the holding devices already set for the other work. This is exceedingly inconvenient, is time-consuming, and frequently results in producing inaccurate workmanship in readjusting the holding devices for the more difficult work. My improvement, however, entirely avoids these existing difficulties, as will more fully appear in the following description.

In the accompanying drawings forming a part of this specification, and on which like reference-letters indicate corresponding features, Figure 1 represents a side elevation of the lower portion of any ordinary drill-press, showing my improved table-bracket applied to the column thereof; Fig. 2, a plan view of the bracket with the tables thereon; and Fig. 3, a

like view of the bracket alone, showing more clearly its plurality of arms.

The letter A designates the base, and the letter B the vertical column, of a drill-press of the ordinary or any approved construction, the drill-operating mechanism being omitted. The letter C refers to the work-table bracket, which consists in part of the collar D, fitted to the press-column and divided at one side, and having screw-threaded lugs and a clamping-screw, whereby the collar is made to snugly fit, yet not unduly bind, upon the column, and by means of which it may be securely clamped. The bracket further consists of the arms E, of which there are two or more, and which stand out from the collar, and preferably terminate in upper horizontal surfaces, where they are vertically bored to receive the short shafts of the work-tables. These are also divided at their ends, as seen in Fig. 3, and provided with lugs and clamping-screws, whereby they are made to bind and duly secure the table-shafts. These arms are further, by preference, of skeleton construction, to reduce their weight and lessen the consumption of metal. Journaled in one of these arms is the usual pinion-shaft, H, having a pinion, I, which meshes with the usual rack-bar, J, of the column, to adjust the bracket with respect to the drill or bit.

The letters K and L respectively represent the flat work and the irregular or other shaped work-table, which I thus designate for purposes of illustrating my invention. These tables are constructed in the usual or any approved way, and are in use provided with the known clamping or work-holding devices, and in the drawings herewith the table L is provided with a chuck, M. The drill is illustrated at N in Fig. 1, and the table K is shown as swung under it. Thus one table may be in use with one kind of work on it while the other table is being supplied with another description of work, and yet no time lost, and when the work on the table K is finished the table L may be instantly swung under the drill.

The ways in which the utility of this arrangement has manifested itself are exceedingly numerous, as I have often found in practical use in a manufactory with which I

am connected, and as is obvious to any mechanic. I would therefore have it understood that I believe myself the first to invent, in a broad sense, a bracket for drill-press work-
5 tables with a plurality of arms for supporting the work-tables, whereby the desirable ends herein indicated are accomplished.

Having thus fully described my invention, what I claim as new, and desire to secure by
10 Letters Patent, is—

1. In a drill-press, the bracket for supporting the work-tables, constructed with a plurality of arms and with a collar which fits the press-column, in combination with a table for
15 each arm.

2. A bracket for supporting the work-tables of a drill-press, constructed with a plurality of supporting-arms and adapted to be connected with the press-column.

3. A bracket for supporting the work-tables 20 of a drill-press, constructed with a divided collar and with two supporting-arms having divided ends, whereby the collar is adjusted to the column and the arms to the table-shafts.

4. In a drill-press, the combination, with 25 the column and the drill, of the bracket fitted to the column and having a plurality of supporting-arms, and tables supported by said arms and adapted, respectively, to different
30 kinds of work.

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

JAMES F. WINCHELL.

Witnesses:

CHASE STEWART,
A. A. YEATMAN.