

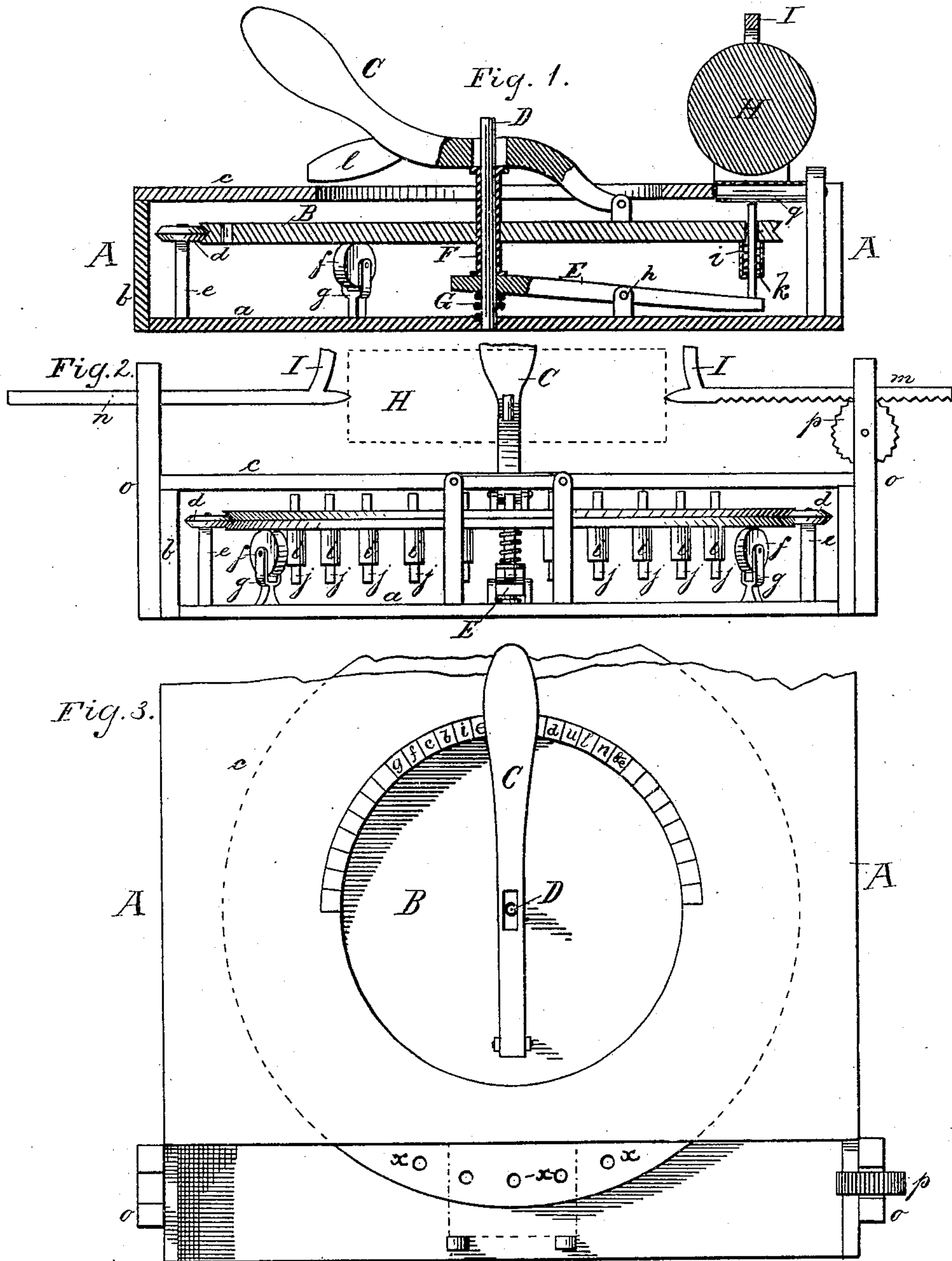
(No Model.)

C. HILGENBERG.

TYPE WRITER.

No. 267,527.

Patented Nov. 14, 1882.



Witnesses:
Adolph Lotz
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UNITED STATES PATENT OFFICE.

CONRAD HILGENBERG, OF CHICAGO, ILLINOIS.

TYPE-WRITER.

SPECIFICATION forming part of Letters Patent No. 267,527, dated November 14, 1882.

Application filed November 26, 1881. (No model.)

To all whom it may concern:

Be it known that I, CONRAD HILGENBERG, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Type-Writing Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The object of my invention is to produce a type-writing apparatus in which, in place of a number of keys that have to be touched for printing the several characters, a simple lever will accomplish the change in the type, as well as the printing of the same; and it consists of the devices and combinations of devices as hereinafter described, and pointed out by the claims.

In the accompanying drawings, Figure 1 represents a transverse section of my type-writing apparatus; Fig. 2, a longitudinal vertical section of the same, and Fig. 3 a plan view.

Like letters represent corresponding parts in all the figures.

A denotes a box-frame of any suitable exterior shape, and consisting of the base *a*, sides *b*, and top *c*. This top *c* has a circular opening, the surrounding edge of which is graduated, and has imprinted the several characters or fac-similes of the types in the usual succession.

B is a turn-table, having a V-grooved rim, and being guided between a series of rollers, *d*, that have a V-shaped rim and are pivoted upon columns *e*, which rise from the base *a* of the frame. This turn-table B is, besides, supported upon rollers *f*, which turn in bifurcated standards *g*, also secured upon the base *a* of frame A.

C is a lever, which at one end is pivotally connected to one side of turn-table B, is slotted in its middle portion, and has an upward-turned handle at its opposite end.

D is a vertical stud secured upon the base *a* of frame A.

E is a lever pivotally supported at about its center in a forked standard, *h*, upon base *a* of frame A. One end of this lever E is slotted, and the stud D passes through this slot and through the slotted portion of lever C. A sleeve, F, that slides upon the stud D, is inter-

posed between the levers C and E, so as to transmit a downward pressure from lever C to lever E. This sleeve, as will be noticed, forms connection between both levers. A coiled spring, G, is placed around the stud D, between lever E and base *a* of frame A, for raising the levers again after each depression.

The turn-table B has a series of holes or slots, *x*, near its periphery, each provided with a tubular casing, *i*, secured against the bottom face of the turn-table for vertically guiding the several types, *j*, each type being surrounded by a light coiled spring, *k*, that will pull it downward. The table B is rotated by the lever C, and a pointer, *l*, that is hinged to the under side of the handle of lever C, is to indicate on the graduated face of frame-top *c* the corresponding type in the turn-table B, that is just above the lever E, which type will be pushed upward by depressing the lever C.

H is the roller that is to carry the paper to be imprinted. This roller is pivoted between two centers in a bow-shaped yoke, I, which has a rack-bar, *m*, at one end and a plain bar, *n*, at the opposite end. These bars *m* and *n* are guided in slotted posts *o*, secured upon or against the frame A, and one of these posts carries a pinion, *p*, which engages with the rack *m* of yoke I in a manner that the rotation of said pinion *p* will shift laterally the roller H. A ratchet-wheel mounted upon one end of the shaft that carries the pinion *p*, and a pawl suitably connected with either lever C or E, may be attached to shift the roller H automatically the proper distance in a lateral direction for each letter to be printed, and other devices may be applied for reversing and rotating the roller after each line has been printed, neither of which arrangements I intend to claim in this application. The roller H is placed in such a position relative to lever E that the type raised by said lever will strike it centrally and rectangularly. Inking-rollers, made of hollow perforated tubes that are covered with felting and filled with ink, are pivoted in said frame at a position where the faces of the types, in passing underneath, will rub against them and will be automatically inked.

What I claim is—

In a type-writing apparatus, the combination of the turn-table B, having V-grooved rim

and holes *x*, each hole being provided with a tubular casing, *i*, secured to the bottom of the turn-table for guiding the types, the vertically-moving types *j*, each surrounded by a coiled spring, *k*, for retracting the same, the V-shaped rollers *d*, rollers *f*, the hand-lever C, pivotally connected with said turn-table, the lever E, pivoted upon the frame in forked standard *h*, the connecting-piece F, and spring G, all con-

structed and arranged to operate substantially in the manner set forth.

In testimony that I claim the foregoing as my invention I affix my signature in presence of two witnesses.

CONRAD HILGENBERG.

Witnesses:

F. W. KASEHAGEN,

H. GAUSTIAN.