

(No Model.)

L. L. SAGENDORPH.
MACHINE FOR STAMPING SHEET METAL.

No. 519,555.

Patented May 8, 1894.

FIG 1

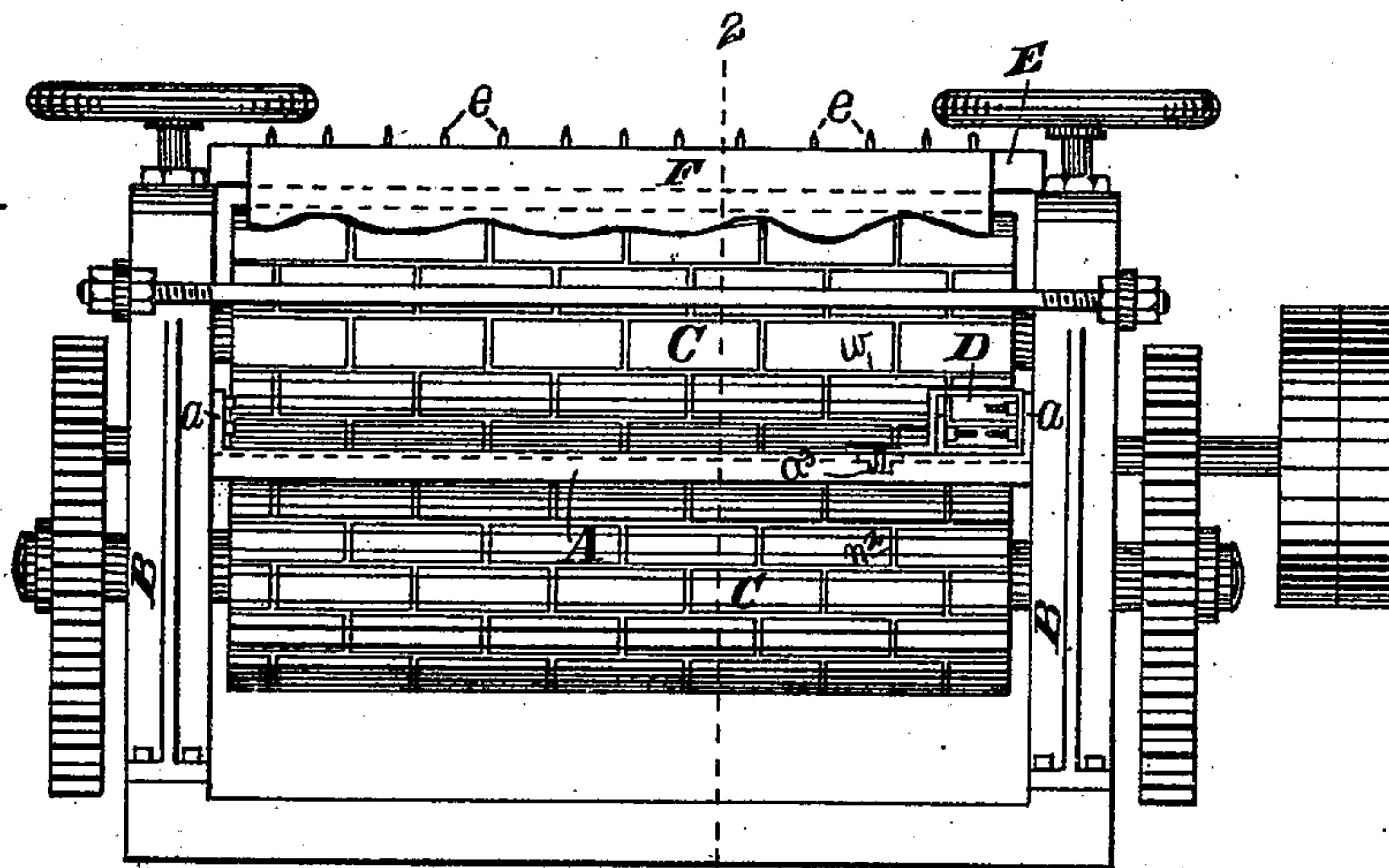


FIG 3

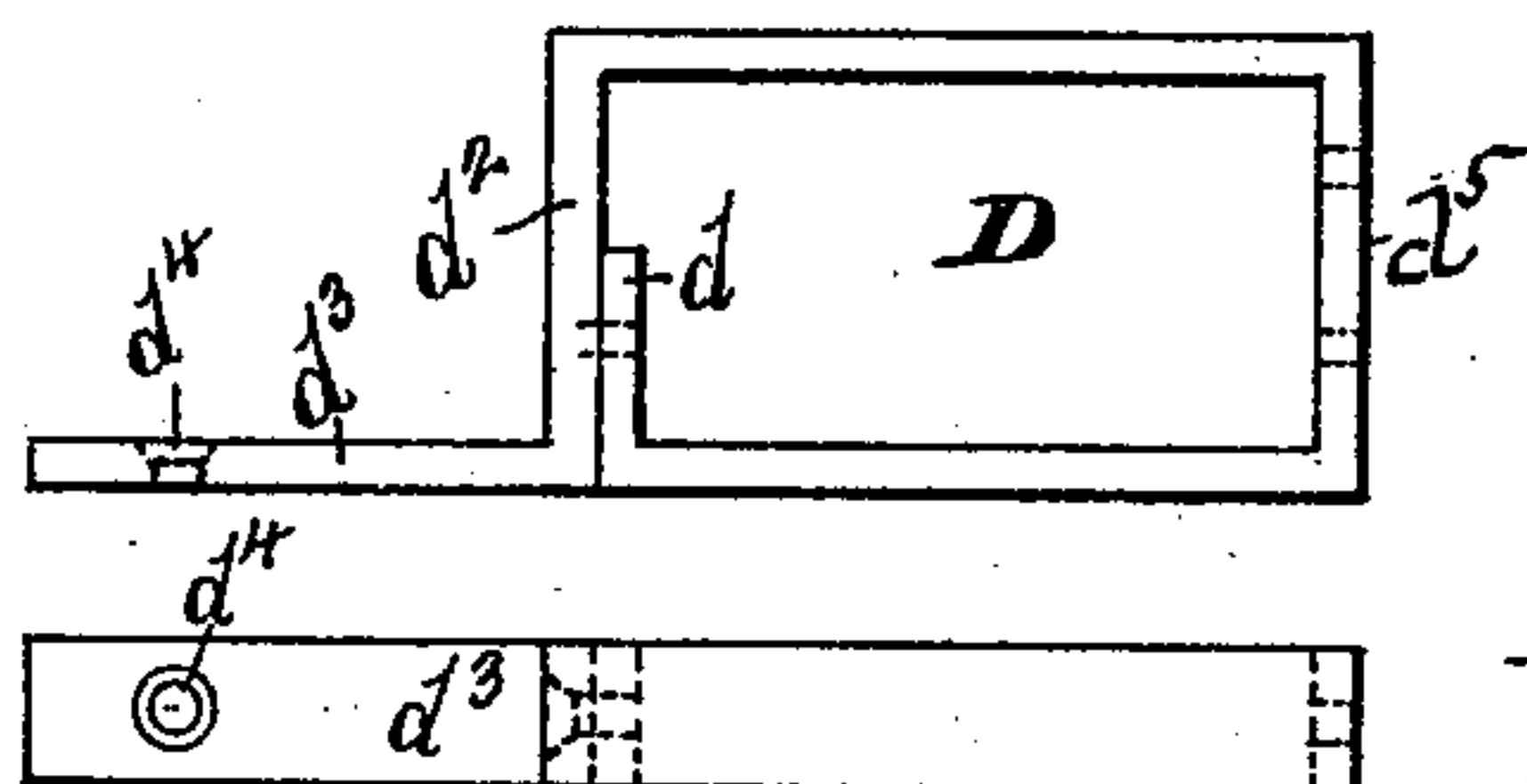


FIG 2

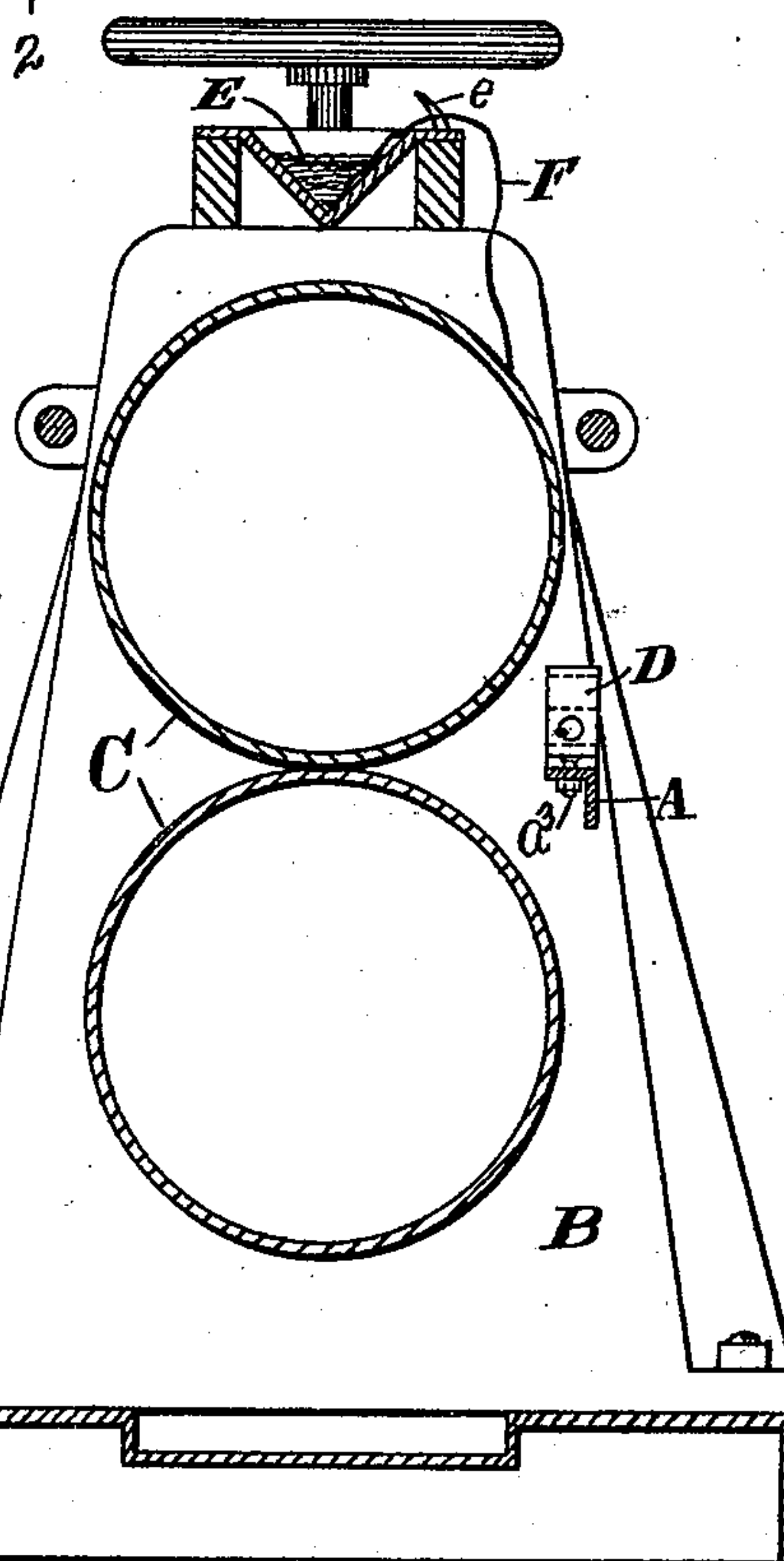
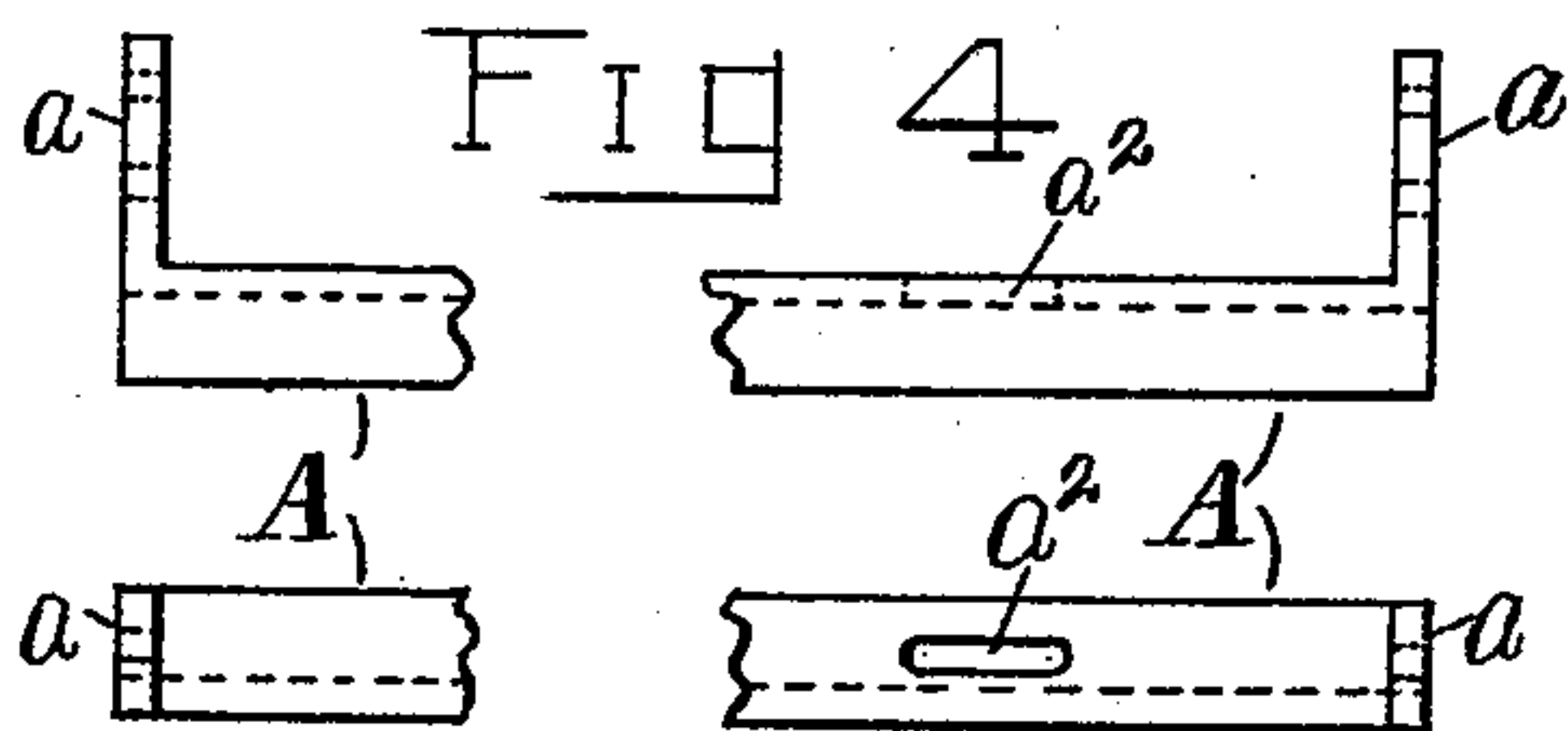


FIG 4



Witnesses

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MACHINE FOR STAMPING SHEET METAL.

SPECIFICATION forming part of Letters Patent No. 519,555, dated May 8, 1894.

Application filed June 26, 1893. Serial No. 478,834. (No model.)

To all whom it may concern:

Be it known that I, LONGLEY LEWIS SAGENDORPH, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Machines for Stamping Sheet Metal, of which the following is a specification, reference being had to the accompanying drawings.

10 My invention relates to that class of machines having two roller-dies between which the sheet-metal is fed to receive the imprint of the said dies, which latter may be provided with any desired configuration of stamp.

15 My invention, however, consists in providing the machine with an adjustable gage and also with a lubricating device as will more fully hereinafter appear.

20 In the accompanying drawings: Figure 1, is a front elevation of a machine embodying my invention, and Fig. 2, is an enlarged vertical section taken on line 2, 2, and looking toward the right hand in Fig. 1. Fig. 3, is a side and top view of the gage detached from its supporting bar, and Fig. 4, is a plan view of said bar broken away centrally and detached from the machine,—the gage portion being removed from said latter figure.

25 The gage-bar, A, extends the full length of the machine and is suitably connected at each end thereof to the end frames, B, said bar serving the purpose of a table in feeding the sheet of metal between the rollers, C. This bar, A, preferably consists of a strip of angle iron, the top end portions, a , of said bar being turned upward, through which the retaining bolts or screws are passed in securing said bar to the end frames. In the top face of this bar, and near one end thereof, is provided an elongated opening, a^2 , through which the gage-bolt passes. The purpose of this elongated opening is to permit the gage, D, to be moved upon its bar, A, to any desired position and there secured by its bolt and nut.

30 35 40 45 50 The gage, D, may be constructed in any desired operative manner, that shown being preferred. When constructed as shown, this gage is made up of a flat strip of sheet metal bent upon itself to form a rectangular outline,—the one end d being bent upward and secured to the inner face of the vertical portion, d^2 , as shown. The extension d^3 is pro-

vided with a suitable opening d^4 , for the bolt, a^3 , which latter passes through the slot a^2 , as aforesaid. The rear portion, d^5 , of the gage is preferably bolted to one of the upright portions, a ; and, to move the gage, the nuts are necessarily loosened; but, said bolts may be dispensed with without in any way departing from my invention.

60 The machine illustrated is designed for the purpose of stamping sheet-metal siding for buildings, and the adjustable gage hereinbefore set forth is for the purpose of gaging the sheet to the rollers, and regulating the amount of lap to be given each sheet.

65 The lubricating device consists of trough or hollow receptacles, E, which preferably extends longitudinally across the top of the machine, above the top roller, and is mounted upon the end frames in any desired manner. The lubricating liquid is placed within this trough, which latter is provided with a strip of cloth or other suitable conducting fabric, F, which latter, along its lower edge, rests upon the top roller as more clearly shown in Fig. 2. Capillary attraction will cause the lubricating liquid within the trough to percolate through the fabric, F, and down upon the surface of the top roller from whence it is transmitted to the lower roller as said rollers are rotated.

70 75 80 85 The strip of fabric, F, may be connected to and within the trough in any desired manner. For this purpose I preferably employ the hooks, e , along one edge of the trough, as shown, which admits of readily applying or removing said liquid conducting strips.

Any suitable geared mechanism may be employed for imparting a rotary movement to the roller-dies.

90 95 When constructed as shown, one of the rollers is provided with longitudinal and alternating transverse ribs, n , the other roller being provided with corresponding longitudinal and alternating transverse grooves, n^2 ,—the said roller-dies being designed to stamp the product with rectangular shaped figures to simulate brick or stone-work.

100 The purpose of the adjustable gage is to regulate the amount of lap to be given the sheet between one edge thereof and the groove formed therein by the transverse ribs and grooves on the dies.

The lubrication of the roller-dies serves to keep the latter free from gum, and when thus oiled, said dies will not tear or cut the mineral paint on the sheets of metal operated upon. The lubrication of the surface of said roller-dies lessens the amount of friction and tends to prolong the life of the machine.

What I claimed as new, and desire to secure by Letters Patent, is—

10 1. In combination with a pair of roller-dies suitably mounted in a rotatable position, the liquid lubricating trough suitably mounted above said dies, and provided with a conducting fabric strip, F, one edge of said strip being secured within said trough the other edge of said strip impinging against one of said dies, substantially as set forth.

20 2. The roller-dies, C, rotatably mounted on the end frames, and mechanism for rotating said dies, in combination with trough E mounted over said dies, hooks or pins *e* secured to said trough, and fabric strip, F, attached to said hook for conducting the liquid

lubricant from said trough to the dies, for the purposes specified. 25

3. The roller-dies mounted one above the other and journaled upon the end frames, in combination with the liquid trough E, feeding-strip F attached at one edge within said trough, and adjustable gage D, substantially as set forth. 30

4. The roller-dies mounted upon the end frames, and means for rotating said dies, in combination with bar A attached to said frames, and provided with an adjustable gage, said gage consisting of a strip of metal bent to form the angular portions d^3 , d^2 and d , the two latter portions being secured together at substantially right angles to the portion d^3 , and suitable means for connecting the latter to said bar, A, as and for the purposes specified. 35 40

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Witnesses:

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