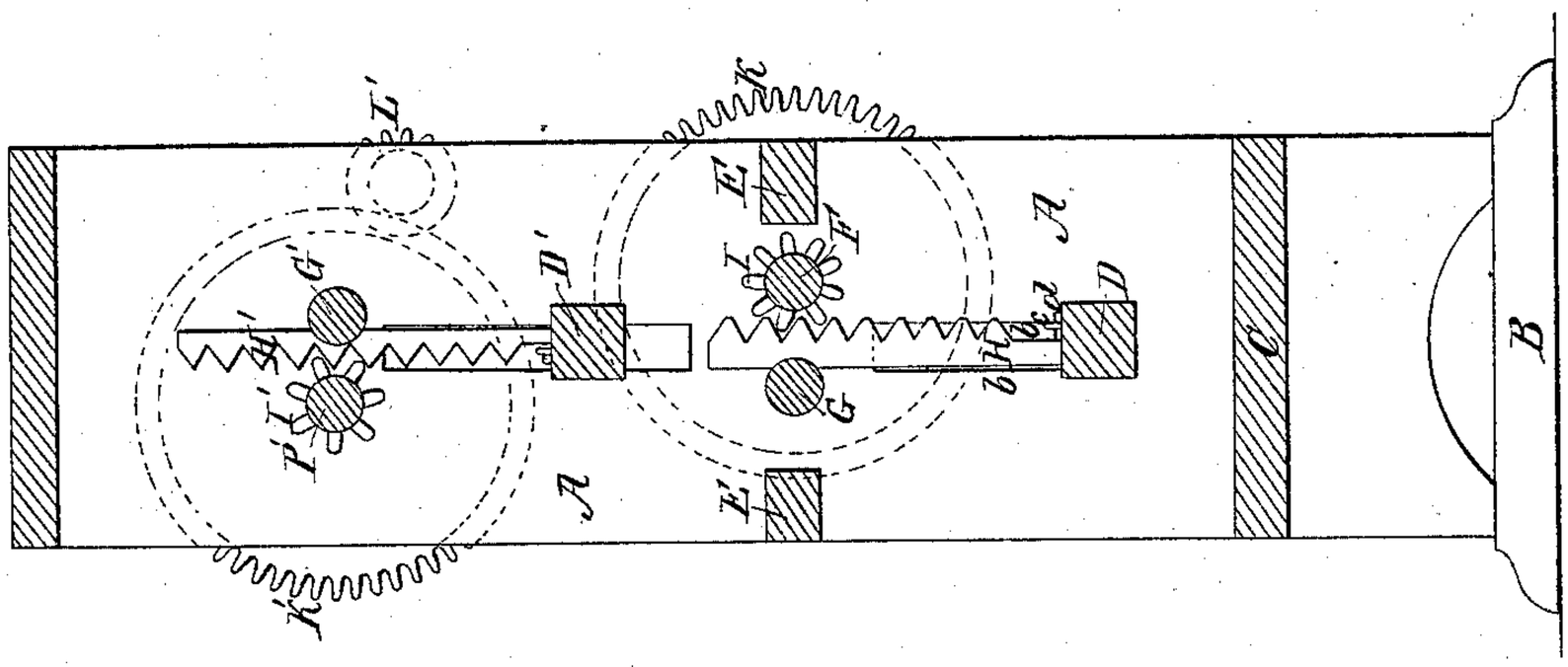
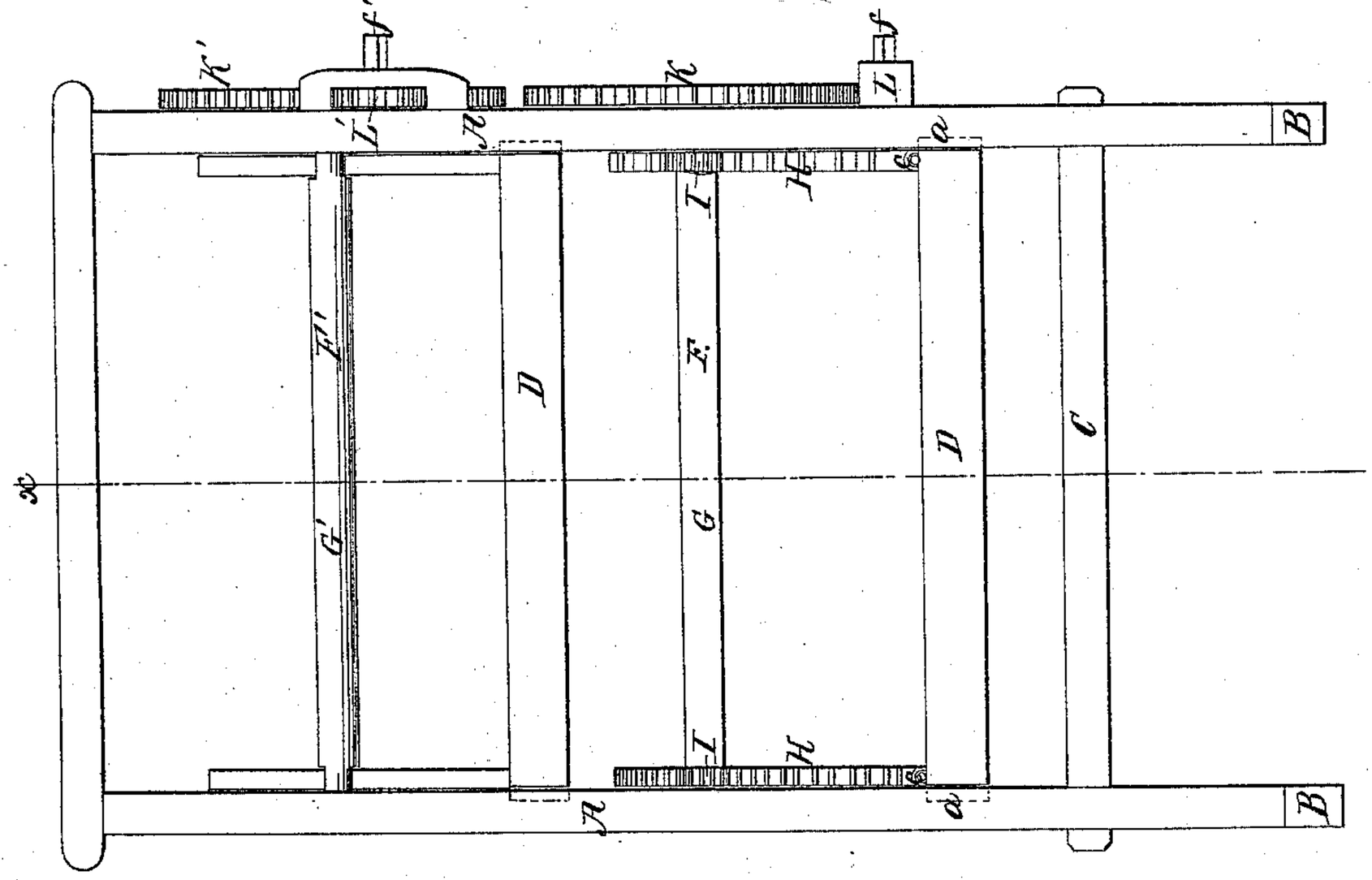
N. Norcross,

Cheese Press.

No. 42,393. Patented Apr. 19, 1864.





Witnesses;
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UNITED STATES PATENT OFFICE.

NATHANIEL NORCROSS, OF LIVERMORE, MAINE.

IMPROVEMENT IN CHEESE-PRESSES.

Specification forming part of Letters Patent No. **42,393**, dated April 19, 1864.

To all whom it may concern:

Be it known that I, NATHANIEL NORCROSS, of Livermore, county of Androscoggin, and State of Maine, have invented a new and useful Machine for Pressing Cheese; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 represents a front view of said cheese-press. Fig. 2 represents a longitudinal vertical section through the line *x x*.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents the frame of the press. C represents the lower cheese-bench, on which the cheese to be pressed is placed.

D represents the press-beam. It is provided at its ends with tenons *a*, which slide in the grooves *b* of the frame A to retain it in its perpendicular position. The press-beam D is provided near its ends with staples *c*, into which the foot *d* of a rack, H, is hooked.

F represents a cross-shaft, which has its bearings in the sides of the frame A. It is provided with two pinions, I, which mesh into the racks H, and when turned operate said racks. The racks H are retained in their perpendicular position by means of the friction-shaft G, which has its bearings in the sides of the frame A, and which has grooves near each of its ends, in which the racks H rest.

K represents a spur-wheel, which is secured to the outer end of the shaft F outside of the frame, and L is a pinion, which has its bearing in the frame A, and which meshes into spur-wheel K. The crank by which the press is operated is secured to the square shaft *f* of said pinion, and thus, when the pinion is turned, the spur-wheel K, pinions I, racks H, and the press-block D are operated.

By the arrangement of the parts described I gain great leverage for pressing, but the great advantage is, that in using a gear at each end of the press-beam D, I am enabled to use a beam of any desired length, and the pressure will be even through its entire length.

E represents two cross-pieces, which are tenoned in each end of the frame. They constitute the second cheese-bench, and a press-beam, D′, shafts F′ and G′, pinions I′ and L′, and spur-wheel K′ are arranged above the cheese-bench E in a similar manner as those above described in relation to the lower press, and which parts are operated by a separate crank. A third press may, on the same plan, be arranged within the frame, identical in its parts to those above described, and by using two or more presses in the same frame I save the cost of separate frames and a great deal of room in the press-room, thereby obtaining a simple, cheap, and highly-efficient cheese-press.

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

1. The combination of the press-beam D, double racks H, double pinions F, and friction-shaft G, when constructed and arranged substantially in the manner and for the purpose described.

2. Arranging two or more sets of presses within the same frame when each press is composed of the press-beam D, double racks H, double pinions F, and friction-shaft G, as herein set forth.

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