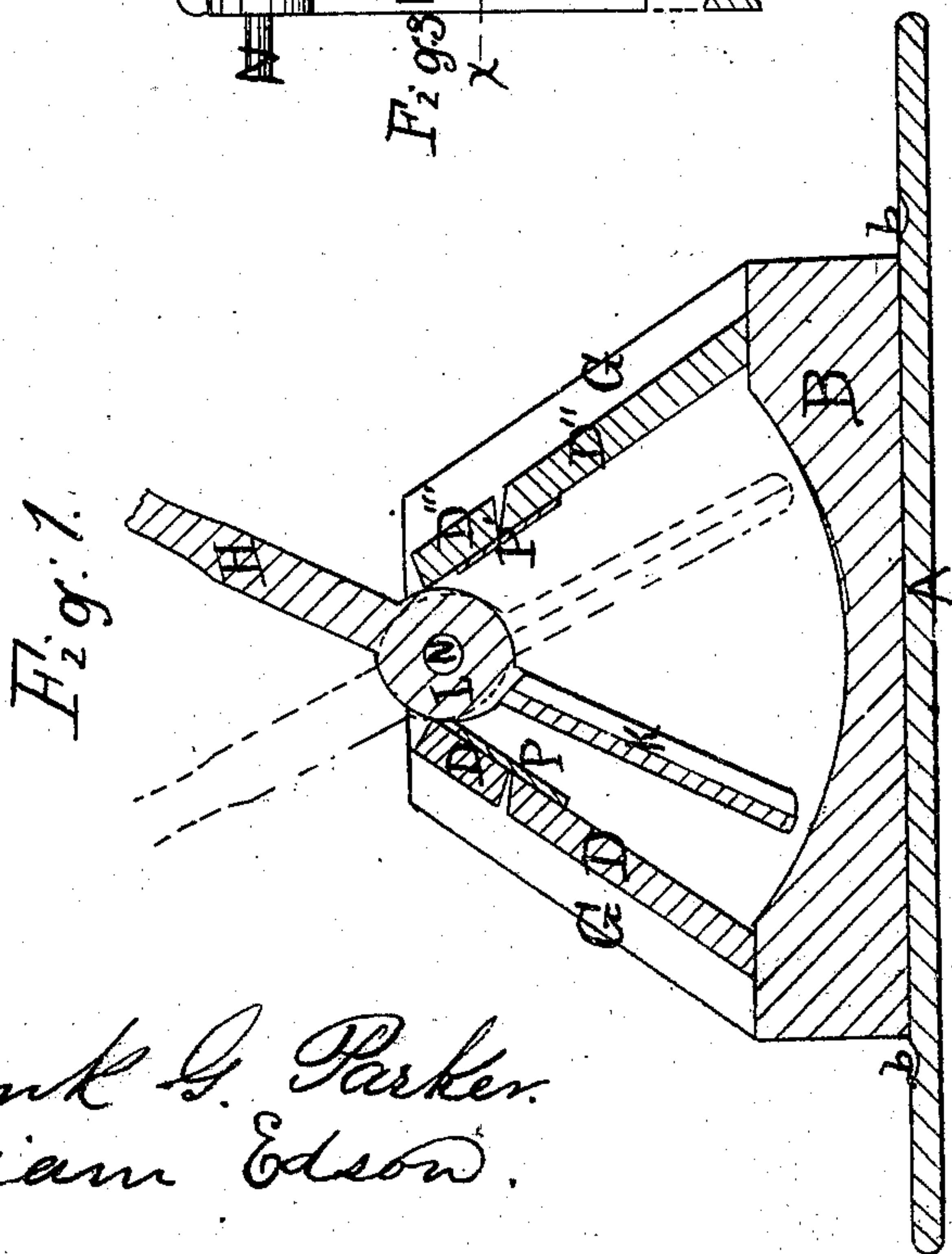
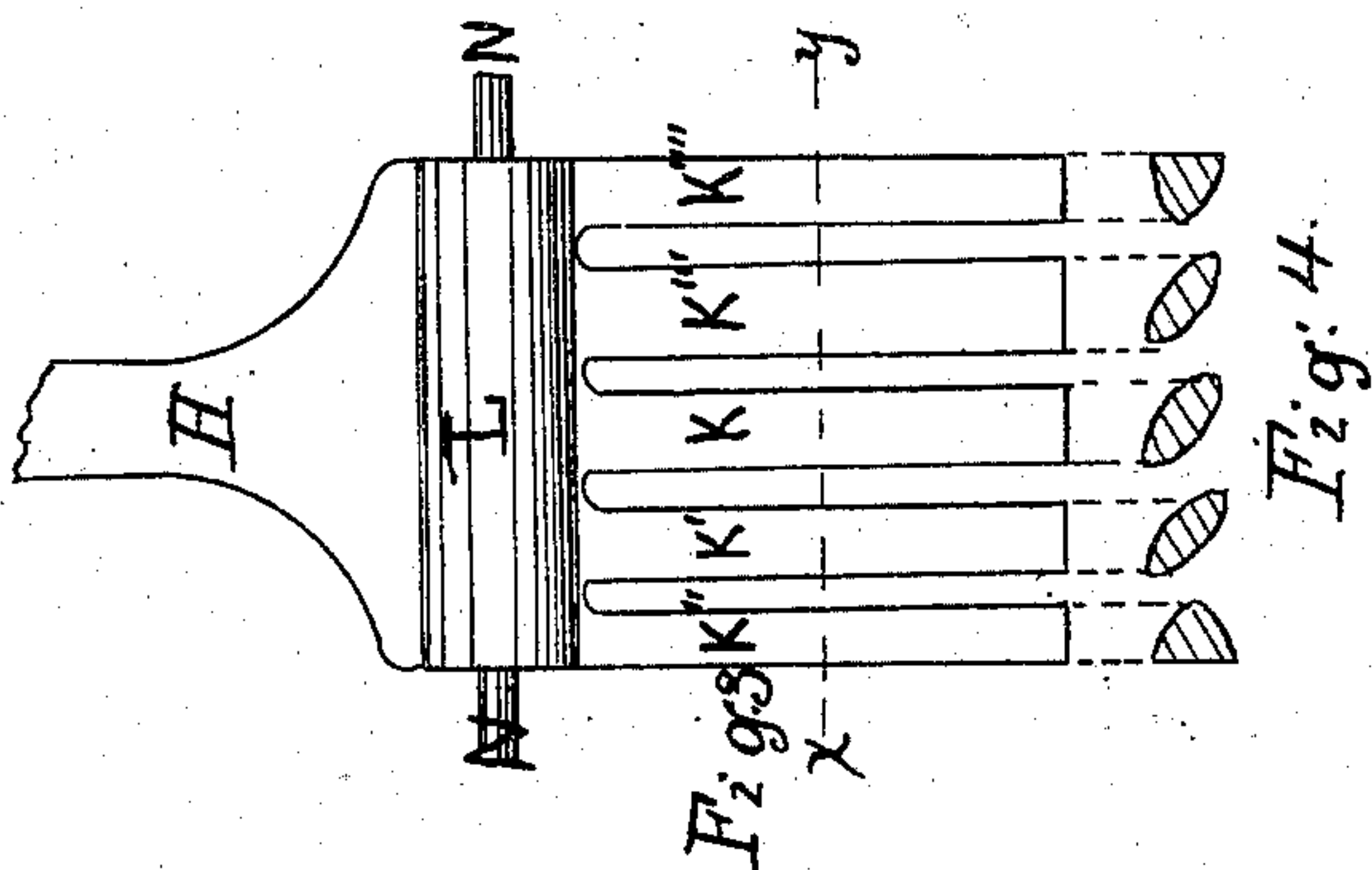
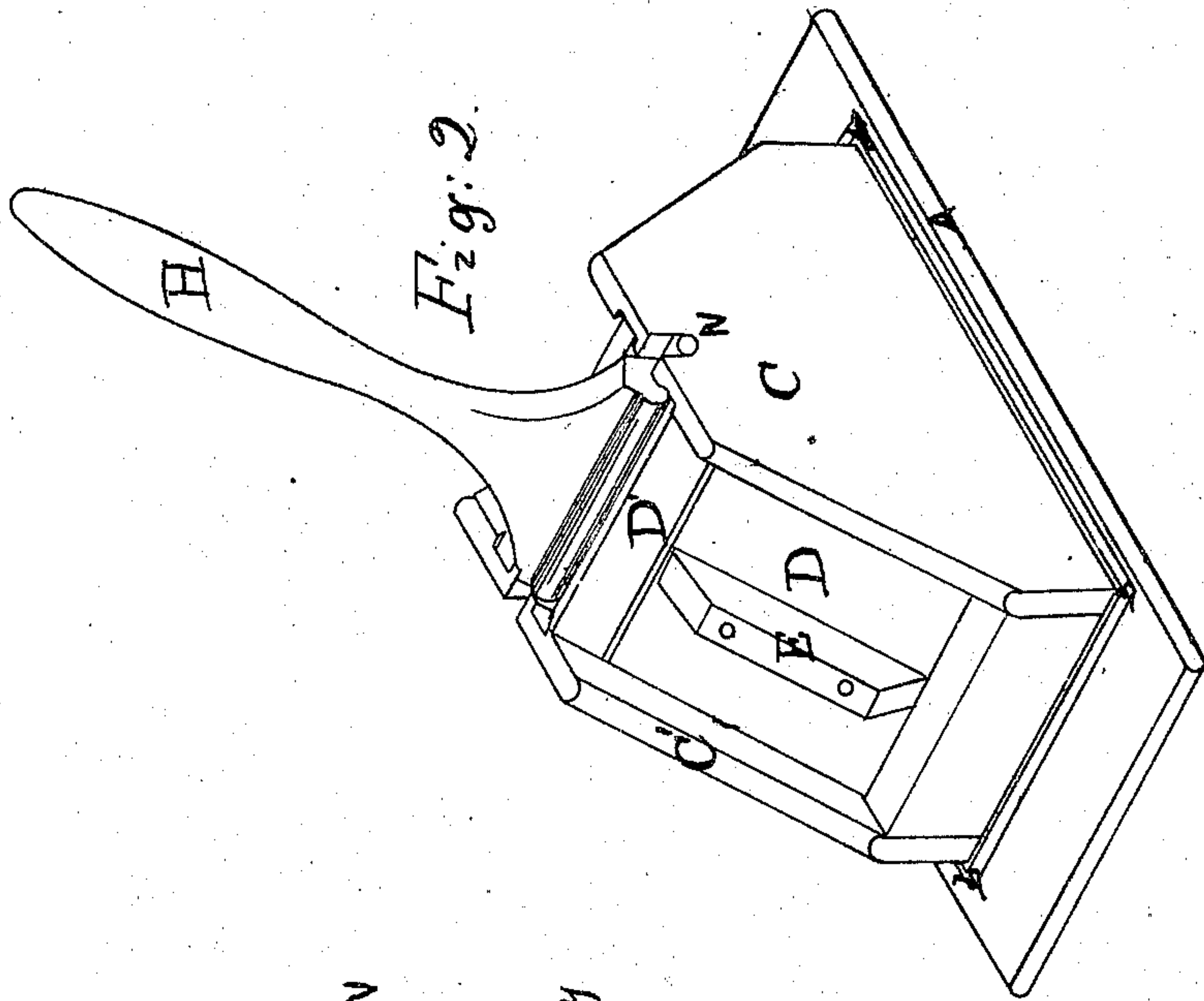


*S. Keen.*  
*Butter-Worker.*

*Nº 74546*

*Patented Feb. 18, 1868.*



*Witnesses*

*{ Frank G. Parker.*  
*{ William Edson.*

*Inventor*

*Samuel Keen.*

# United States Patent Office.

SAMUEL KEEN, OF EAST BRIDGEWATER, MASSACHUSETTS.

*Letters Patent No. 74,546, dated February 18, 1868.*

## IMPROVEMENT IN BUTTER-WORKERS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, SAMUEL KEEN, of East Bridgewater, in the county of Plymouth, and State of Massachusetts, have invented certain new and useful Improvements in Butter-Workers; 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.

The nature of my invention consists in combining with a peculiarly-constructed butter-receptacle, an oscillating paddle or butter-worker.

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

Figure 1 is a vertical section of my butter-worker.

Figure 2 is a perspective view of the same.

Figure 3 is an elevation of the paddle.

Figure 4 is a section of the paddle on the line *xy*, fig. 3.

A is a board of convenient size, forming the base of my machine. B, fig. 1, is a block of wood, forming the bottom of the butter-receptacle, its upper surface being concaved, as shown in section, fig. 1. C C', fig. 2, form the sides of the receptacle. D D' D'' D''', form the ends of the receptacle. The end D D' is free to slide out or open when it is desirable to put in or take out butter. E, fig. 2, is a cleat fastened to D for convenience for handling. The parts D' D''' are attached to the parts D D'' by flexible strips P P', fig. 1, and are so arranged that they bear with considerable pressure upon the cylindrical part of the paddle, thus maintaining a tight joint.

The butter-receptacle is not so tight as to prevent escape of the buttermilk, which oozes out of its joints and is collected by the small channels *b b*. The paddle, fig. 3, oscillates on the journals N N. The teeth K K' K'' are formed as shown in the drawings, figs. 3 and 4, that is, the longest diameter of each tooth is diagonal to the plane of motion, while the extreme teeth K'' K''' are triangular in form, as shown in fig. 4. The object of this arrangement of teeth is to secure a more complete agitation of the butter at each oscillation of the paddle. H is a handle, which serves to oscillate the paddle.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The paddle or butter-worker H K, when working in the manner substantially as described, and for the purpose set forth.

2. Combining the pieces D' D''' with the pieces D D'', by the elastic strips P P', substantially as described, and for the purpose set forth.

SAMUEL KEEN.

Witnesses:

FRANK G. PARKER,  
WILLIAM EDSON.