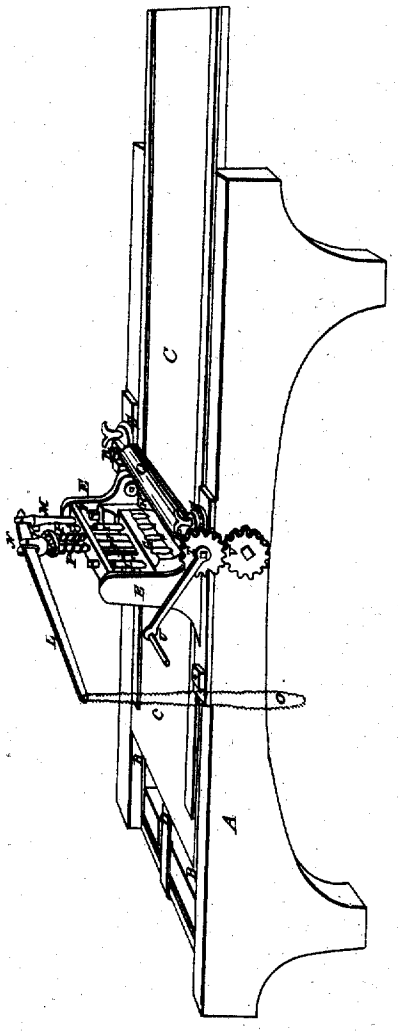
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G. M. Kendall,

Cracker Machine,

Patented May 3, 1833.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

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May 3, 1833

George M. Kendall Hatskill N.Y.

Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said George M. Kendall himself of his improvement in the machine for cutting Crackers.

Be it known that I George M. Kendall of the town of Hatskill in the County of Green and State of New-York have made an improvement in the machine for cutting Crackers which is described as follows.

This machine is composed of a frame for supporting the machinery a Shifting board on which the cakes are cut rolls and hand to move the shifting board a cast iron frame, a head piece containing the cutting knife-stirrups, and spiral springs for operating the cutters also for preparing the dough. Crank handle &c. about to be described the machine. The frame marked A in the annexed drawing is constructed by framing together two side pieces two end pieces and two pieces of such size and strength as to support the other parts of the machine. The grooves B are made in the top of the side pieces of the frame to receive the shifting board.

The shifting board C as seen at the inside of the frame between the grooves and of the length of the frame. Two rollers are placed across the frame between the two side pieces & under the shifting board. A band D passed around these rollers by which the board is moved backwards & forwards. A cast iron frame E consisting of two upright standards and a top plate is erected on the centre of the frame & to which it is fastened by screw bolts, on the inside of each standard a circular groove for the head piece.

The head piece F containing the cutters is cast with a groove on each end to slide in the vertical grooves mentioned on the inside of the standards. The head piece are bored as many holes as there are cutters to be used in each into which the cutters are fixed by the centre of each cutter and the head piece is drilled a hole & recessed and

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to the lower end of which rod is attached the follower working in the cutter the upper end is fastened to the top plate of the frame. The locking pins are inserted into the cutters in the usual manner. A moveable frame composed of the post & cap is fastened on the top of the head piece.

The post & side pieces of this frame are round bars of iron working loosely thro openings in the top plate of the cast iron frame. In the center of the cap piece of the moveable frame is a small standard K The lever L is a bar of iron of suitable length & strength to operate the cutters and extends over the frame having one end attached to an upright steel pin M by a pin a which it turns and is connected with the moveable frame by an other pin b passing thro the top of the small standard & lever. The other end of the lever extends over the side of the machine having a stirrup shap O attached to it by which it is operated. Spiral springs P are put around the post of the moveable frame, one end of each spring resting on the plate of the cast iron frame & the other end bearing against the under side of the cap piece of the moveable frame.

The roller Q for rolling the dough is a prop- -er thickness & placed across the top of the frame near the cutters it gudgeons turning in moveable boxes R graduated by screws and spiral springs S to any thickness of cake required. One of the gudgeons projects sufficiently for receiving a cog wheel T and crank handle U this cog wheel works into another cog wheel V on the end of the gudgeon of one of the rollers carry- -ing the band and sliding board. The operation of the machine is as follows.

The dough is prepared in the usual manner it is then laid upon the sliding board, the crank handle turned which brings forward the sliding board with the dough under the roller where it is rolled to a proper thickness it is then carried forward under the cutters the operator feeds it fast into the stirrup at the end of the lever and pushed down which brings down the end of the lever and with it the moveable frame & cutters. The cakes are then cut and stamped the post & then raised and the moveable frame returned to its former position by the action of the spiral springs: at the same time the cakes are discharged from the cutters by the follower on the ends of the rods.

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In their Stead is the Application to the Board. The cable and Sheaves through which are passed in the ordinary Mode. A Spring at one end of the cable working into a Rack on the inside Side of the Movable Board, Serves to substitute for the Sailor and Hand to move the Board.

What I claim as my Invention in the Apparatus described, and desire to obtain Letters Patent for, is the application of the Spiral Springs Lever and Stirrup as above described to the Steam or other Assisted or Cutting Gear.

In testimony whereof I have hereunto subscribed my Name this 29 day of April 1836.

Witness
William Ellis
William Bunn

George Wm Wendell

(Or in port folio)

Lord
1836