

UNITED STATES PATENT OFFICE.

BETHUEL GILLETT AND L. ALLIS, OF WINDSOR, CONNECTICUT.

SELF-ACTING CHEESE-PRESS.

Specification of Letters Patent No. 8,311, dated August 26, 1851.

To all whom it may concern:

Be it known that we, BETHUEL GILLETT and LYMAN ALLIS, of the town of Windsor, in the county of Hartford, State of Connecticut, have invented a new and useful Machine for Pressing Cheese, known and described as a Self-Acting Power-Increasing Cheese-Press; and we do hereby declare the following to be a full and exact description of the same, reference being had to plans accompanying and forming part of this specification.

The nature of our invention consists in the peculiar combination of a falling press frame, with a pair of toggle joint levers and an eccentric shaped wedge fixed perpendicular as shown in plan.

We will first explain the different parts of the machine composing the press.

A is the outer frame of the press.

B is inner or sliding frame.

C C is toggle (or knuckle) joint and levers.

D is bed plate to receive the cheese.

E is the eccentric wedge fixed solid to frame perpendicular at F.

G G is cross head and sill to sliding frame.

H is the moving main center cross piece to receive the bed plate for the cheese.

I is rag wheel and crank.

K is strap to draw up the sliding frame and to open the press.

The explanation of the self acting principle is this, say a cheese of about 50 lb.

more or less, is placed on the receiver or bed plate D, when the press is drawn up and fully open, which will be seen when the rollers of the toggle joints, C, are at the top of the wedge, E, then the vacant space above the cheese to the top cross head, G, of the sliding frame, B, must be filled up by an additional weight, or any substance to make it solid to resist the pressure when in operation, loosen the rag wheel by lifting the click, and the weight of the cheese (or assisted by additional weight if required) will bear down the movable or sliding frame, B, and cause the rollers of the toggle joints to slide down on the edges of wedge, E, the shape of which causes the toggle joint arms to straighten and produce the upward pressure, which pressure will be regulated by the amount of weight on the bed, D, the more the weight the greater the pressure, which can be instantly relieved or eased off by the crank and rag wheel.

What we claim as our invention and desire to secure by Letters Patent, is—

The combination of the falling frame with the toggle joint levers, and the fixed eccentric wedge, acting together and making the upward movement and pressure substantially as herein set forth and described.

BETHUEL GILLETT.
LYMAN ALLIS.

Witnesses:

WM. VINE,
C. SLAIRNER.