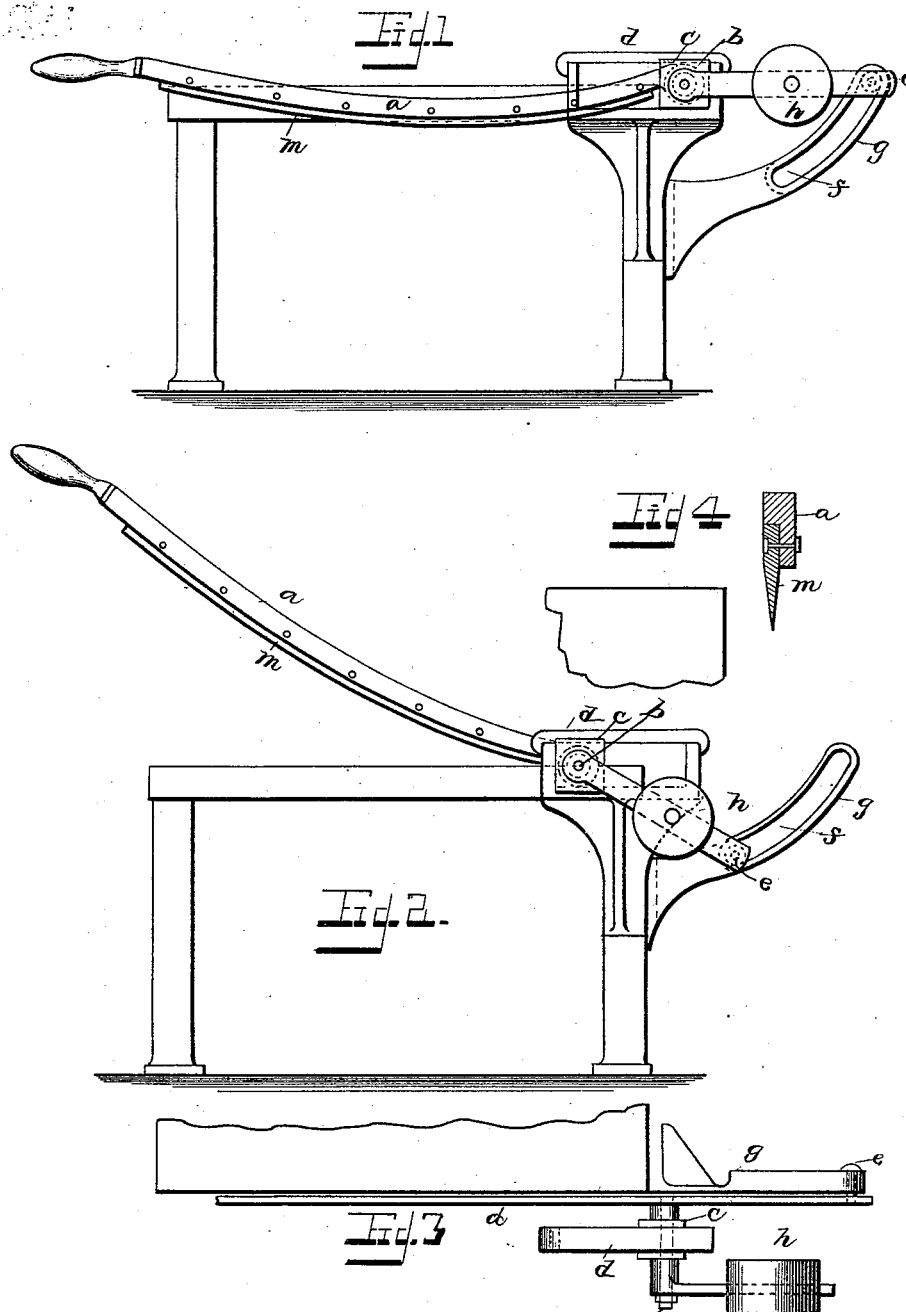


(No Model.)

E. SALTZKORN & L. NICOLAI.
MACHINE FOR CUTTING PASTEBOARD, &c.

No. 454,968.

Patented June 30, 1891.



Witnesses
J. M. Fowler Jr.
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UNITED STATES PATENT OFFICE.

EMIL SALTZKORN AND LUDWIG NICOLAI, OF DRESDEN, GERMANY.

MACHINE FOR CUTTING PASTEBOARD, &c.

SPECIFICATION forming part of Letters Patent No. 454,968, dated June 30, 1891.

Application filed November 29, 1890. Serial No. 373,097. (No model.)

To all whom it may concern:

Be it known that we, EMIL SALTZKORN and LUDWIG NICOLAI, both subjects of the King of Saxony, residing at Dresden, Saxony, German Empire, have invented certain new and useful Improvements in Machines for Cutting Pasteboard and the Like, of which the following is a specification.

- The hitherto-known pasteboard-shears, in which co-operate two scissors-like blades, of which one is fixed to the table and the other to a lever-shaped beam, produce with two or three layers of pasteboard of medium thickness but an uneven and imperfect cut, which makes the pasteboard unfit for many purposes. The paper-cutting machines now in use are unsuited for these purposes, as their operation necessitates a number of movements of the hand, which involve loss of time.
- The subject of the present invention is a machine for cutting pasteboard and the like, to be used in the place of the pasteboard-shears, and has the advantage of producing a smooth and neat cut for several layers of stout pasteboard or the like. This is obtained by means of one knife or blade with a sharp edge, which slides past the supporting plate or table, and thereby receives a drawing motion similar to that which is given to the cutting-knife by the hand.

Figure 1 is a front elevation of a cutter constructed in accordance with our invention. Fig. 2 is a similar view with the knife raised. Fig. 3 is a top plan view of the front edge, showing the knife. Fig. 4 is a detail section of the knife.

Like letters of reference denote the same parts in all the figures.

- The knife-handle or blade-carrier *a* is mounted on a bolt or pivot *b*, carried in a bearing or block *c*, which is capable of reciprocating in a frame or guide *d*. The knife handle or lever *a* extends beyond the pivot *b*, and carries at the projecting end a roller *e*, which works in the curved slot *f* of a bracket *g*. A weight *h* may be secured to the extension of the knife handle or lever, as shown, or to an arm secured on the pivot *b*.

On raising the knife handle or lever *a* the block *c* is moved toward the table through the guiding action of the cam-slot *f*, while a displacement in the opposite direction is effected by pressing the knife-handle downward. A sliding motion is thereby given to the knife *m* in cutting, which, on account of the thin sharp blade, produces a smooth cut and also requires the application of but little power.

The cam *f*, instead of being in the form of a slot, may be solid in the form of a bar, and the lever *a* may be provided with an eye or other guide for working on it, and, moreover, it may be straight or of other shape than curved, as hereinbefore described.

We claim—

1. In a pasteboard-cutting machine, the combination, with the knife pivoted on a bearing movable in fixed guides, of a cam and an extension connected to said knife co-operating with the cam to move the knife and its bearing longitudinally, substantially as described.
2. In a pasteboard-cutting machine, the combination, with the knife pivoted on a bearing movable in fixed horizontal guides, and having a rearward extension, of the diagonal cam with which said extension co-operates to move the knife longitudinally, substantially as described.
3. In a pasteboard-cutting machine, the combination, with the table having the fixed horizontal guides mounted thereon at one end, the cam-bracket also affixed to said table, and the bearing-block movable longitudinally in said guides, of the knife pivoted to said block with the rearward extension co-operating with the cam to move the knife longitudinally, and the counterweight, substantially as described.

In testimony whereof we have hereunto set our hands in presence of two witnesses.

EMIL SALTZKORN.
LUDWIG NICOLAI.

Witnesses:

RUDOLF SCHMIDT.
PAUL DRUCKMÜLLER.