(No Model.)

A. SPITZLI.

ADHESIVE PAPER LIFTER.

No. 317,234. Patented May 5, 1885.

Fig. 1.

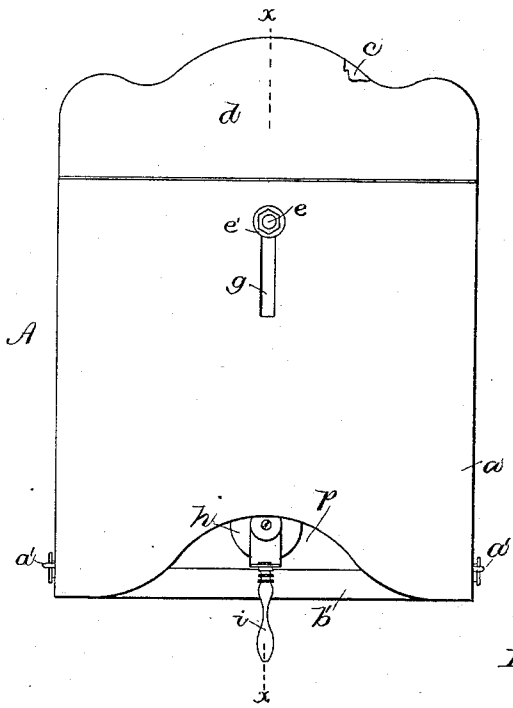


Fig. 2.

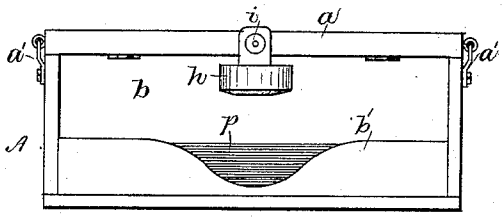


Fig. 3

Fig. 5

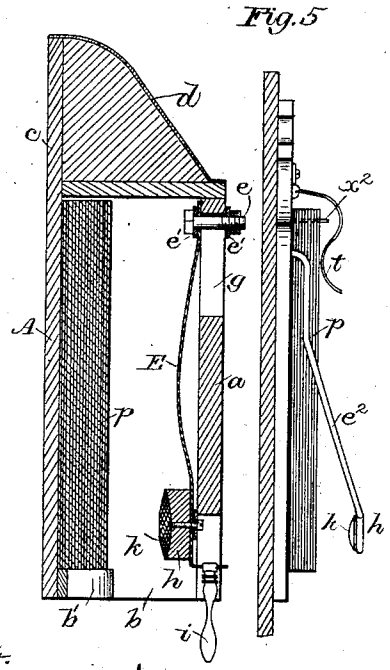
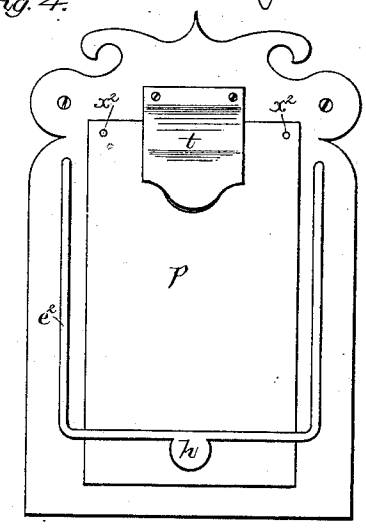


Fig. 4.



Witnesses
Henry Marsh.
John F. C. Printhert

Inventor
Alfred Spitzli.
by Crosby & Gregory Attys.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

ALFRED SPITZLI, OF WEST TROY, NEW YORK.

ADHESIVE PAPER-LIFTER.

SPECIFICATION forming part of Letters Patent No. 317,234, dated May 5, 1885.

Application filed April 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, ALFRED SPITZLI, of West Troy, county of Albany, State of New York, have invented an Improvement in Adhesive Paper-Lifters, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

My invention has for its object the production of novel means whereby one sheet or layer of paper after another may be lifted from a pile or suspended package of sheets by the application thereto of a pad having an adhesive wafer, the latter being attached to a carrier, to thereby enable the sheet, or several sheets in succession, to be readily lifted to be grasped by the hand, thus avoiding the vexation and loss of time incurred in the attempt to remove sheets of paper singly by hand from a pile.

The invention consists, primarily, of a pad having an attached adhesive wafer adapted to maintain its adhesive properties for a reasonable period of time, and to remove sheets or layers of paper from the pile or package, combined with a pad-carrier for operating the pad, and with a paper-holder to which the pad-carrier is affixed, and by which it is borne normally out of contact with the paper in said holder, whereby a sheet, or a succession of sheets taken singly, can be lifted from the package of sheets and be readily grasped by hand.

This invention is susceptible of many and easy modifications and changes in the manner of applying and using the same, and it is peculiarly applicable for use in lifting a sheet or a number of sheets or layers singly and in succession from a pile or bulk of wrapping, toilet, writing, and other papers, and labels for druggists and others, bills, circulars, and other papers kept in pads, under clips, or in receivers or paper-holders, more especially when such labels, &c., are kept in compartments, drawers, and the like, that are of sizes to receive them. In such cases it becomes at times a difficult and vexatious matter to remove by hand sheets singly or in succession from such compartments.

Figure 1 shows a box containing my invention and having a pincushion connected therewith; Fig. 2, an open end view; Fig. 3, a longitudinal vertical section on line *x x*, Fig. 1; Fig. 4, a view in front elevation of a modification to be described; Fig. 5, a side elevation of the modification shown in Fig. 4.

In the present instance I provide a box, A, as the paper-carrier, it having a hinged lid, *a*, fastened down by means of the hooks and eyes *a'*, to permit the sheets of paper in bulk to be placed within the box. The upper portion of one end of the box is open, as at *b*, to expose the paper *p*, and the half end piece *b'* and the adjacent end of the lid *a* are cut away, to provide greater space at that point and permit easy movement of the hand or fingers thereabout in grasping the paper in sheets, as will be presently seen. The bottom piece of the box is carried beyond the closed end thereof, as at *c*, and the space provided between the top of said box and said extension *c* is filled with a pincushion, *d*, as shown, the said pincushion occupying but little space, adding to the appearance of the box, and serving a useful purpose when the former is used to contain toilet and other papers, as will be readily understood.

One end of a pad-carrier, E, is attached to the under side of the lid, near the back end thereof, by a bolt or pin, *e*, held by the plates *e'* to either side of the lid, whereby said carrier is capable of longitudinal movement in the elongated slot *g*, cut in said lid, as shown. The pad-carrier E is shown in the present instance as a flat spring or strip of metal, which is extended through the box and projected from the open end thereof, where it receives a handle, *i*, for convenience of operation.

The pad *h* is suitably affixed to its carrier E, and has attached to its under side an adhesive wafer, *k*, adapted to maintain its adhesive properties for a reasonable period of time, the said pad being secured to the pad-carrier at a point near the mouth of the box, so that when the pad-carrier is depressed by bearing on the handle thereof the adhesive wafer will strike and adhere to the top layer or sheet of paper contained in the box, and upon releasing the handle the spring pad-carrier will return the pad to its normal position

at the top of the box, thus lifting or carrying with it the sheet of paper adhering to the adhesive wafer, when said sheet may be easily grasped by the fingers, the cut-away portions of the box facilitating the same.

The slot is provided to further aid, if need be, the easy grasping of the lifted sheet, since when so lifted the pad-carrier may be drawn partly from the box, the bolt *e* moving in the slot, thus partly withdrawing the sheet from the box, when there will be no difficulty whatever, even for aged or cramped fingers, to grasp the said sheet and remove it from the adhesive wafer, the pad-carrier being afterward forced back into the box. In this manner sheet after sheet may be successively removed from the paper-holder.

The box or paper-carrier can be supplied with paper through the open end, instead of by means of the lid.

Instead of the box A, I may use as the paper-holder a back piece or hanging board having a spring-clamp, *t*, or having pins x^2, to hold the sheets of paper to the board, as shown in the modification, and the pad-carrier may be constructed of spring-wire, as at e^2, of the form shown, with the pad *h*, having the adhesive wafer *k*, attached to the under side of the carrier—as, for instance, shown in Fig. 5.

It is evident from the nature of my invention that the means used for holding the paper in bulk which I term the "paper-holder," and the means for carrying the pad having the adhesive wafer, herein termed the "pad-carrier," may be easily modified and changed in many particulars and be of various forms without departing from the spirit of my invention.

The material of which the adhesive wafer is composed is described in application executed by me the 25th day of April, 1884, and filed concurrently herewith, and patented July 1, 1884, as No. 301,176.

I am aware that a printing-machine has been provided with a device rolled over the pile of sheets of paper to lift such sheets one by one, and that it has been proposed to apply adhesive substance to the device to secure the adhesion of the paper to the said device. Such a device is not portable.

I claim—

1. The paper holder combined with the adhesive pad and the pad-carrier affixed to and borne by said holder normally out of contact with its contained paper, substantially as shown and described.

2. The paper holder or box A, having one end, *b*, open and the other end closed, and having the attached spring pad-carrier and pad connected thereto, and provided with an adhesive wafer, substantially as shown and described.

3. The combination, with a paper-holder for containing sheets of paper in bulk, of a pad having an attached adhesive wafer adapted to maintain its adhesive properties for a reasonable period of time, and a pad-carrier for supporting and operating the connected pad, said pad-carrier secured in a bearing in the paper-holder normally above and out of contact with the bulk of paper contained therein, and having transverse and longitudinal movement in the paper-holder, whereby a sheet or layer of paper may be lifted from the sheets in bulk and partly removed from said holder, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFRED SPITZLI.

Witnesses:
JOHN CLATWORTHY,
WILLIAM R. LYON.