(No Model.)

F. A. SMITH.

SUSPENSION CARD INDEX.

No. 570,686. Patented Nov. 3, 1896.

Fig. 1.

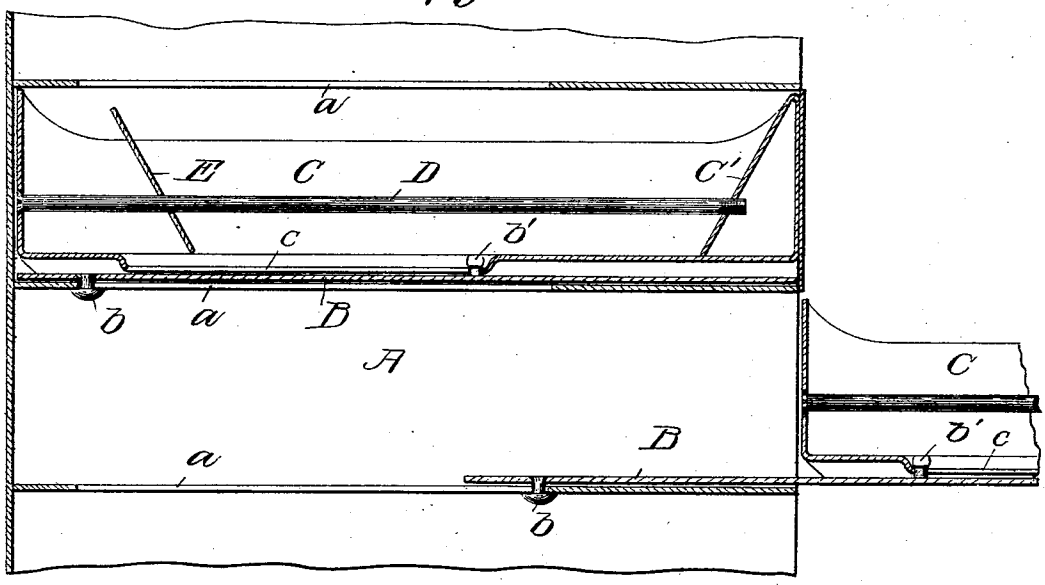

Fig. 2.

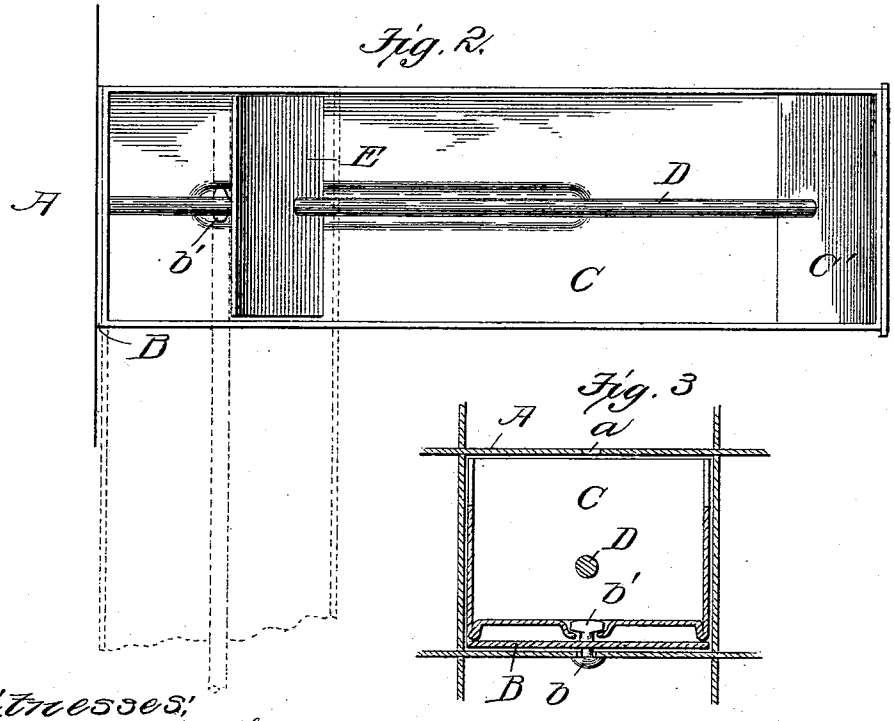

Fig. 3

Witnesses:
F. R. Cornwall
Hugh K. Wagner.

Inventor:
Francis A. Smith,
by Paul Bakewell his atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANCIS A. SMITH, OF ST. LOUIS, MISSOURI, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE ST. LOUIS ART METAL COMPANY, OF SAME PLACE.

SUSPENSION CARD-INDEX.

SPECIFICATION forming part of Letters Patent No. 570,686, dated November 3, 1896.

Application filed February 24, 1896. Serial No. 580,452. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS A. SMITH, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in a Suspension Card-Index, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, wherein—

Figure 1 is a longitudinal sectional view through a bank of my indexes, showing one index within the case and the other drawn out ready for use. Fig. 2 is a top plan view showing an index out in position in full lines and in dotted lines the position assumed when it is desired to insert new cards in the index or to remove the index entirely, and Fig. 3 is a cross-sectional view.

This invention relates to a new and useful improvement in card-indexes of that class in which a card is perforated and strung on a rod arranged within a suitable drawer or box. This drawer is adapted to coöperate with pigeon-holes in a suitable casing. The object of my invention is to so construct this drawer and its associate parts that the drawer may be drawn out its full length, giving access to all parts thereof, in which the drawer is practically suspended. While in this suspended position the drawer may be swung horizontally on a pivot and removed from its support, or may be swung on its pivot to enable access to be had to the back thereof, whereby the rod may be removed for the insertion or removal of cards.

In the drawings, A indicates the casing or tier of pigeon-holes provided with shelves and partitions, as is usual. These shelves are formed with slots *a*, through which passes a headed lug *b* from the drawer-support B. This drawer-support, through the medium of its lug passing through the slot, is limited in its movement, and is guided in such movement by the partition on each side thereof.

C indicates the drawer, which is preferably provided at one end with an inclined wall, against which the cards rest after they have been examined.

D indicates a rod, which is removably mounted in the drawer by passing through the rear end thereof, and being supported at its front end by the inclined wall C′, with which the rod preferably has a threaded connection, the rear end of the rod being formed with a grooved head for turning the same.

E is a follower arranged on the rod for supporting the card, which follower is adapted to be retained in an inclined position by the edges of its perforation, through which the rod passes, biting the rod.

The drawer C is preferably made with a raised bottom—that is, flanges are formed at its side, which flanges rest and slide upon the drawer-support B. In the raised bottom of the drawer is a depressed portion, in which is located a slot *c*, through which slot projects a stud *b′* on the drawer-support B, which slot has a T-head disposed transversely to the movement of the drawer.

When it is desired to examine the cards in any file, it is only necessary to pull that particular file out until the rear end of slot *c* comes in contact with stud *b′*, forcing the drawer-support B outwardly until its stud *b* strikes the front end of slot *a*, when the drawer will occupy a position as shown by lower part of Fig. 1 and in Fig. 2. In this position access is readily had to the entire contents of the drawer. As seen in Figs. 1 and 2, when the drawer is in this forward position its rear end is past the front line of the casing, thus permitting the drawer to be turned horizontally around the stud *b′* as a pivot-point for the purpose of getting the T-head of said stud in line with the slot *c*, when the drawer may be disengaged from its supporting-plate B, or, access being had to the rear end of the drawer, the rod D may be unscrewed from its seat and the inclined wall C′, in the front end of the drawer, for the purpose of removing or inserting cards.

I am aware that many minor changes in the construction, arrangement, and combination of the several parts of my invention may be made and substituted for those herein shown and described without in the least departing from the nature and principle of my invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination with a suitable casing, of a sliding drawer-support arranged therein, a drawer mounted upon said support, and means for limiting the outward movement of said drawer and its support, said means permitting the drawer to be revolved horizontally upon its support when in an outer position; substantially as described.

2. The combination with a suitable casing, of a drawer slidingly arranged therein, a drawer-support slidingly arranged in the casing and interposed therebetween and the drawer, said drawer and its support having a limited outward movement whereby when the drawer is in such outer position it may be revolved horizontally upon its support for the purpose of disengagement therefrom; substantially as described.

3. The combination with a drawer having a raised bottom and a depressed portion in said raised bottom, in which is formed a slot, a drawer-support having a T-headed lug which coöperates with said slot, a suitable shelf for said support, said shelf being formed with a slot, and a headed lug on said support which coöperates with the slot in the shelf; substantially as described.

4. The combination with a drawer having an inclined front wall, of a rod which passes through the rear wall of said drawer, its front end being supported by said inclined wall, a drawer-support, and a case for said drawer and its support, said parts having sliding connections permitting the drawer to occupy a forward position outside of the casing whereby the drawer may be swung on its support to enable access to be gained to the rear end of the rod; substantially as described.

In testimony whereof I hereunto affix my signature, in presence of two witnesses, this 1st day of February, 1896.

FRANCIS A. SMITH.

Witnesses:
F. R. CORNWALL,
HUGH K. WAGNER.