

No. 810,677.

PATENTED JAN. 23, 1906.

F. J. & C. B. ROSENBERG.
LEDGER.

APPLICATION FILED AUG. 23, 1904.

2 SHEETS—SHEET 1.

Fig. 1.

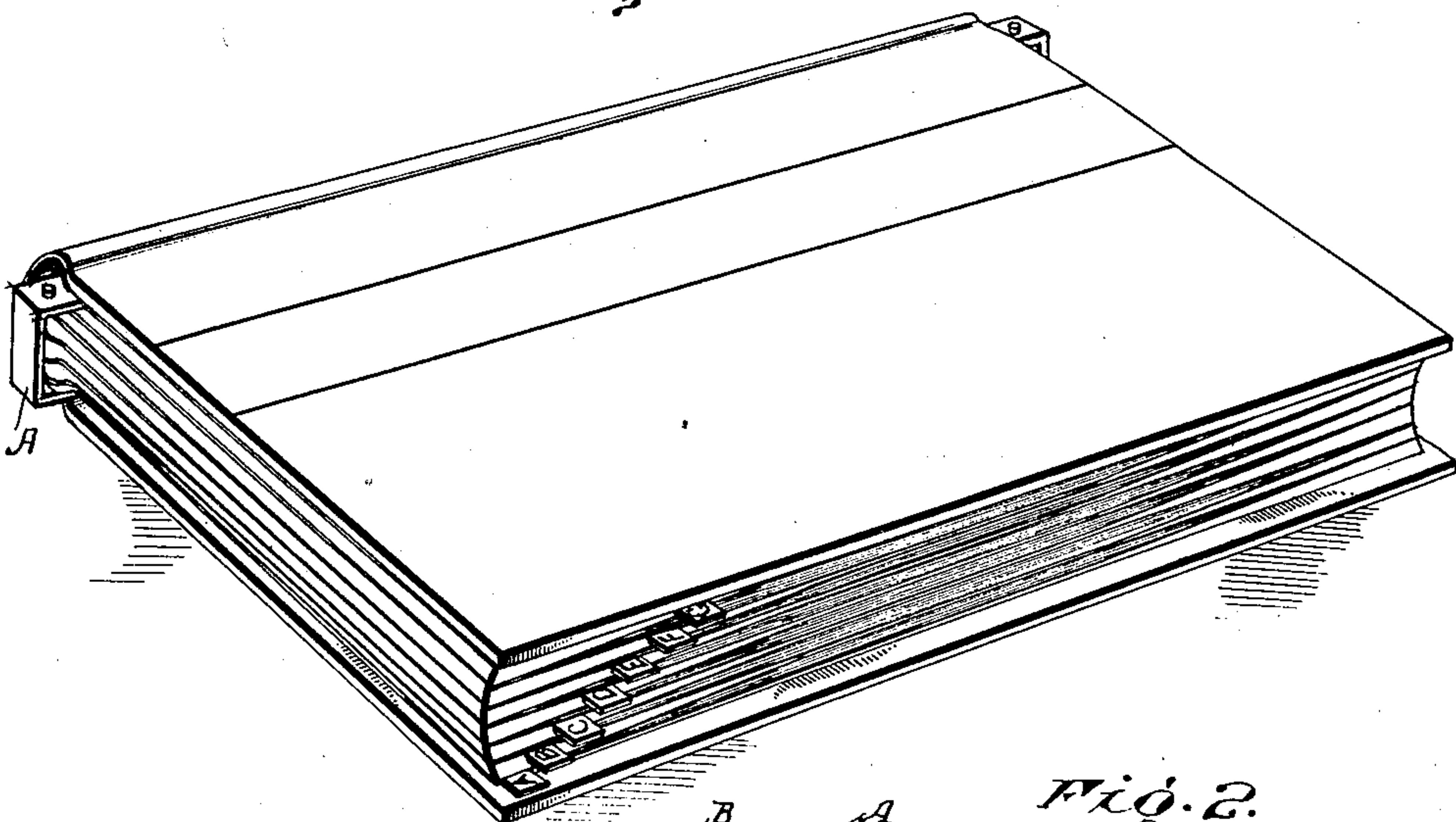


Fig. 2.

Fig. 2.

DATE. DR. CR. DATE. DR. CR.

Conor. C. L.	Coulter. E. L.	DATE. DR. CR.	DATE. DR. CR.
Conrad. C. E.	Corcoran. F. L.		
Conway. L. D.	Corfield. E. M.		
Cook. F. F.	Cornell. E. J.		
Cotter. C. D.	Conly. E. W.		
Cossar. S. E.	Caselman. W. W.		
Corbett. J. J.	Coswell. D. W.		
Combs. C. E.	Cossack. M. P.		

DATE. DR. CR. DATE. DR. CR.

Dalter. L. E.	Dobson. E. E.
Darner. S. R.	Doer. C. L.
Davenport. E. L.	Dolan. H. D.
Davis. C. C.	Dodder. S. C.
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Becker. M. W.	Diron. H. E.
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Fig. 2.

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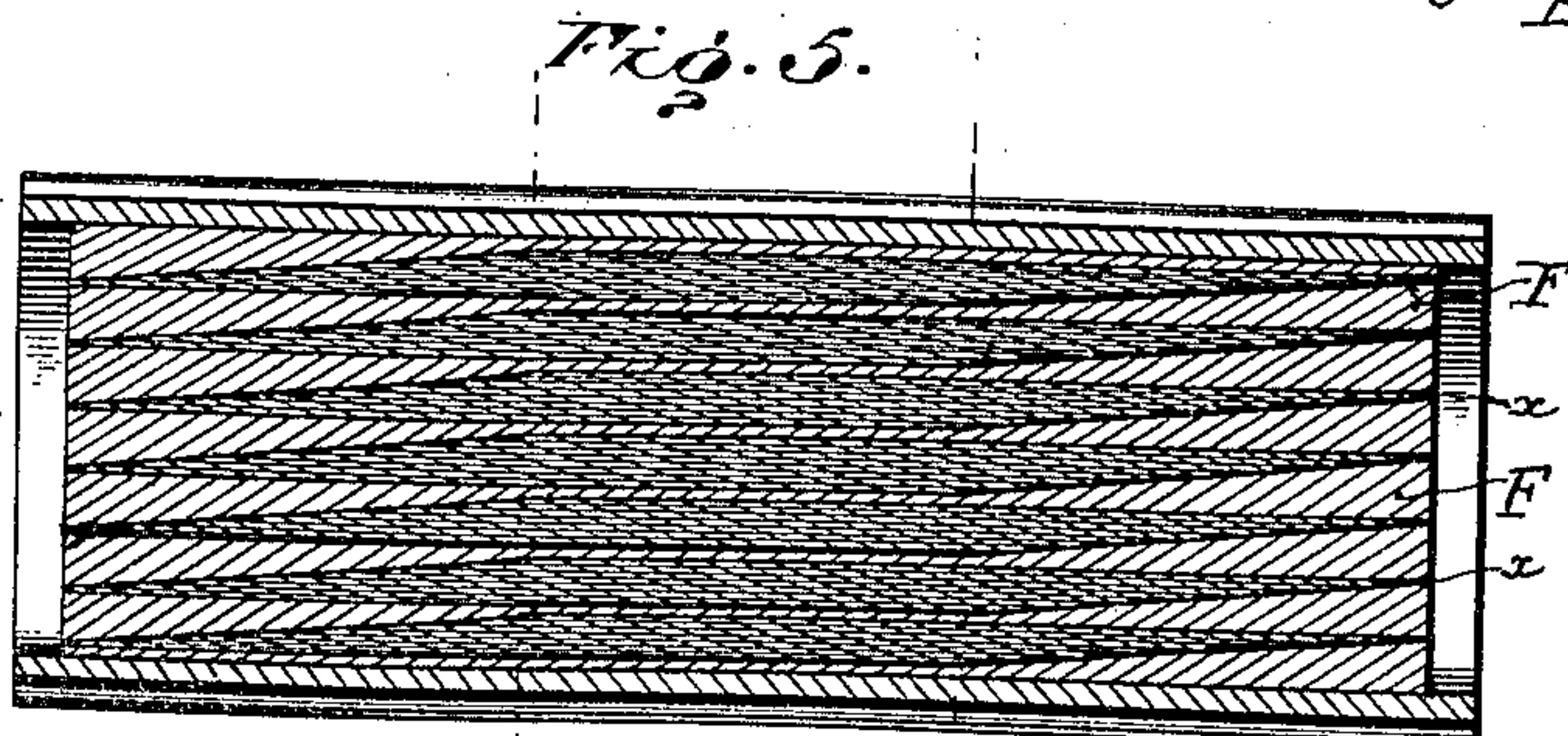
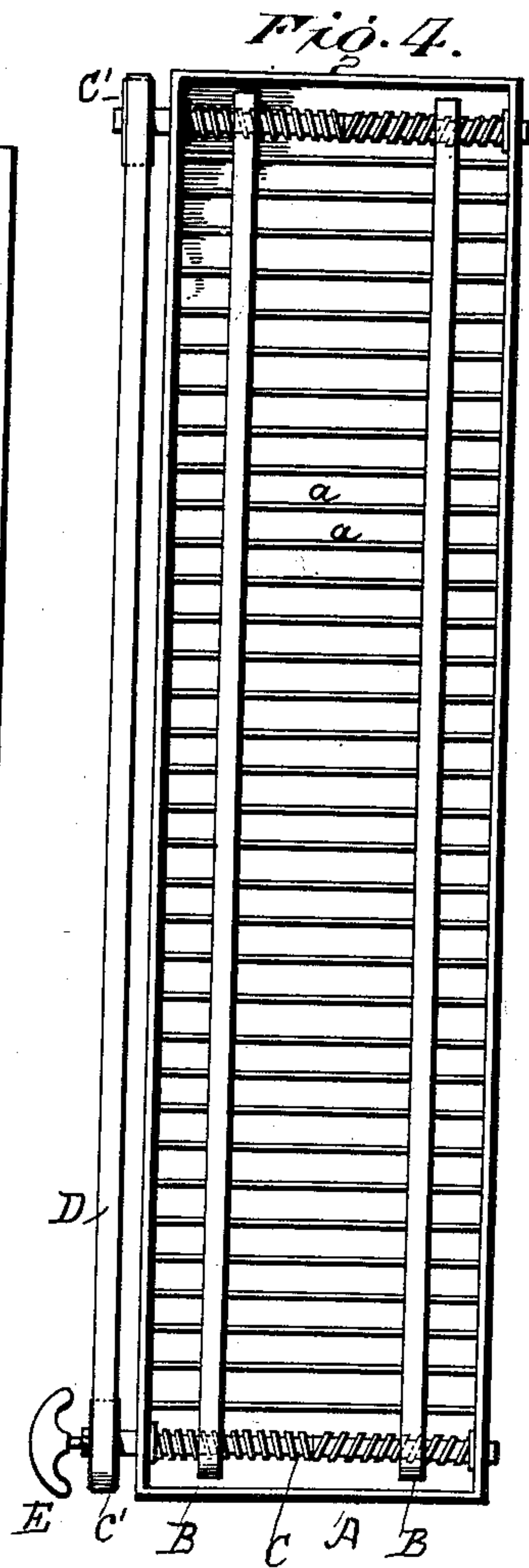
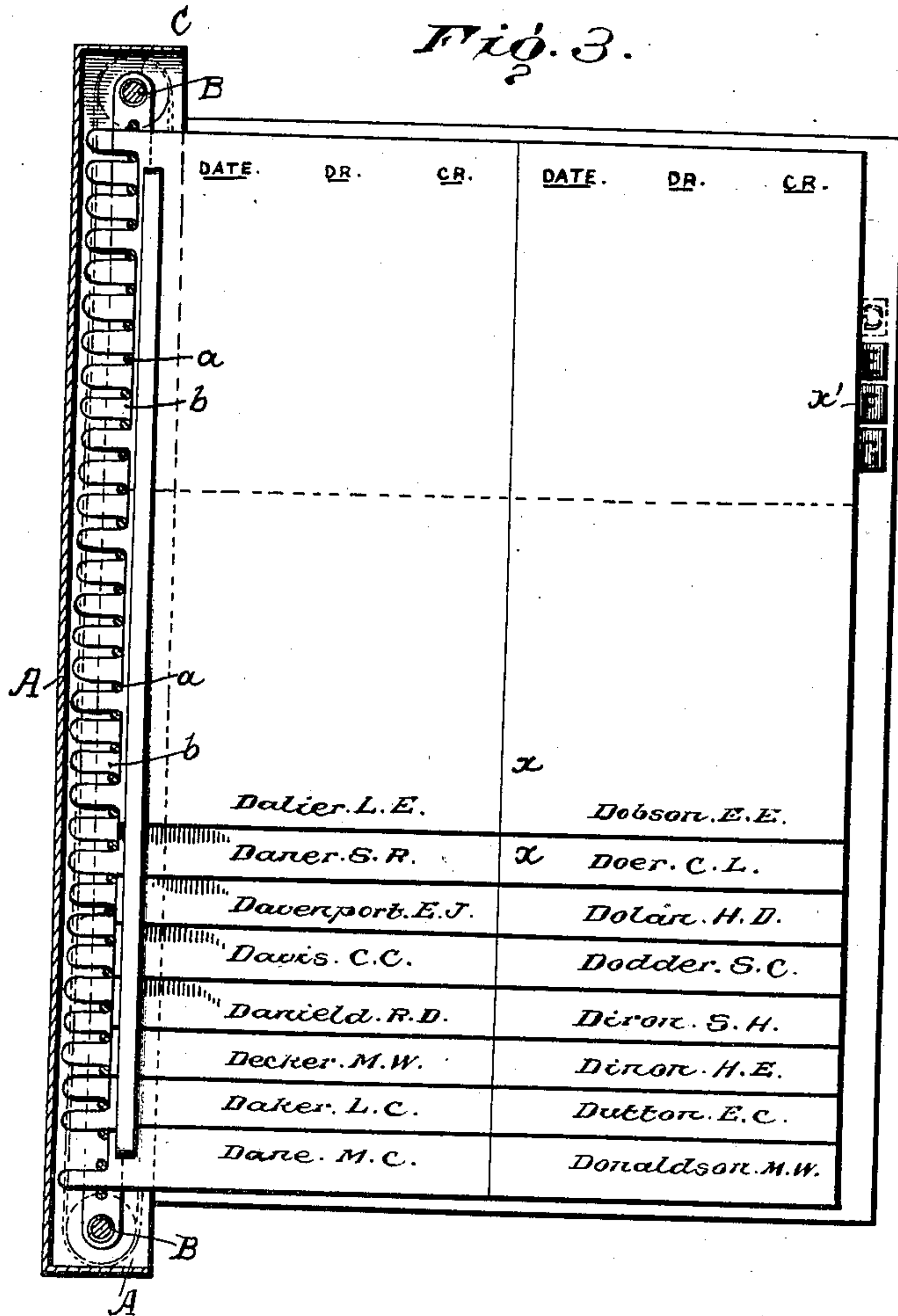
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2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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LEDGER.

No. 810,677.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed August 23, 1904. Serial No. 221,839.

To all whom it may concern:

Be it known that we, FRANK J. ROSENBERG and CHARLES B. ROSENBERG, citizens of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Ledgers, of which the following is a specification.

Our invention relates to bookbinding, and more particularly to ledgers.

One of the principal objects is to dispense with the usual cumbersome index in the front of the book, and this we accomplish by dividing the book up into novel sets of stepped leaves, the number of sets being governed by the number of letters employed—that is to say, ordinarily there would be twenty-six sets—one for each letter of the alphabet; but it sometimes occurs, and particularly in banking-houses, that the ledger embraces only a certain number of the letters of the alphabet. The sets of leaves are stepped on both sides, and both sides are used for indexing purposes, the several sets being separated from each other by spacers.

A further object is to provide a suitable binder to accommodate and in reality to effect the stepping of the leaves and which will also prevent buckling and distortion and permit the ledger to be opened out flat.

Other objects and advantages will be referred to hereinafter.

The nature, characteristic features, and scope of the invention will be more clearly understood from the following description, taken in connection with the accompanying drawings, forming a part hereof, wherein—

Figure 1 is a perspective view of a ledger embodying features of our invention. Fig. 2 is a similar view of the ledger opened. Fig. 3 is a sectional elevational view illustrating the manner of inserting the leaves to effect the correct stepping of the same. Fig. 4 is an elevational view of the hull, illustrating the binding-wires, clamp, and means for operating the latter; and Fig. 5 is a sectional view of the ledger to illustrate the pads used to compensate for the duplex stepping of the leaves.

To compensate for the omission of the usual index, we arrange the leaves in sets, as before stated, according to the number of letters employed. There are usually twenty leaves to each set, but the number of leaves

is controlled by the number of accounts, it being understood that additional leaves may be inserted, if necessary. The leaves are overlapped or stepped on both sides, as clearly shown at *x* in Figs. 2 and 3. We are thus enabled to use both sides of the leaves for indexing purposes, and thereby obtain a compact and simple form of ledger, in which no accounts may be lost for lack of indexing.

In order to effect an accurate stepping of the leaves in a simple and convenient way and to facilitate the ready insertion of additional leaves, if such be necessary, we provide a hull A, which may be inexpensively made of metal. The hull or part A is provided with a plurality of transversely disposed and alined wires *a*, which serve to support and carry the projecting strips or tabs *b* of the leaves.

x' designates the spacer-sheets, having lettered tabs which separate the several sets of stepped leaves and which may also carry the letters of the alphabet.

B designates clamping members or bars which serve to bind the leaves together, and, as shown in Fig. 4, they are mounted on spindles C, disposed endwise of the member A. Said spindles are each provided with right and left hand screw-threads, so as to cause said bars to simultaneously approach or recede from one another. The spindles themselves, through the media of the sprocket-wheels C' and chain or belt D, are capable of synchronous movement to insure a proper alinement of the bars B when approaching or receding. This movement is effected by applying a key E to one of said spindles, as shown in Fig. 4.

Referring to Fig. 5, F represents wedge-shaped pads which become necessary by the double stepping of the leaves and which may be availed of to insure the pages being kept flat or level and to promote uniform contact. They may constitute a complementary part of the spacer-sheets *x'* or they may be bound in with the leaves.

It will be obvious to those skilled in the art to which our invention relates that modifications may be made in details without departing from the spirit and scope of the same. Hence we do not limit ourselves to the precise construction and arrangement of parts hereinbefore described, and illustrated in the accompanying drawings; but,

Having described the nature and objects of the invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A ledger consisting of suitable clamping
5 means and transverse wires *a* for the leaves, a plurality of sets of leaves provided with tabs *b* and stepped and indexed on both sides, spacer-sheets for the several sets of leaves, and wedge-shape pads *F* at both ends of said
10 spacer-sheets, substantially as described.

2. A ledger consisting of a plurality of sets of leaves stepped and indexed on both sides,

and provided with tabs *b*, on one edge, spacer-sheets, and wedge-shape pads *F* alongside of said spacer-sheets, and a suitable binder for 15 the leaves, whereby the stepping is accurately effected, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

FRANK J. ROSENBERG.

CHAS. B. ROSENBERG.

Witnesses:

W. B. BRAIN,

H. R. GORDRICH.