Nov. 25, 1924. 1,516,932

L. STAAB

NOTEBOOK WITH EXCHANGEABLE LEAVES

Filed May 7 1923

Fig. 1

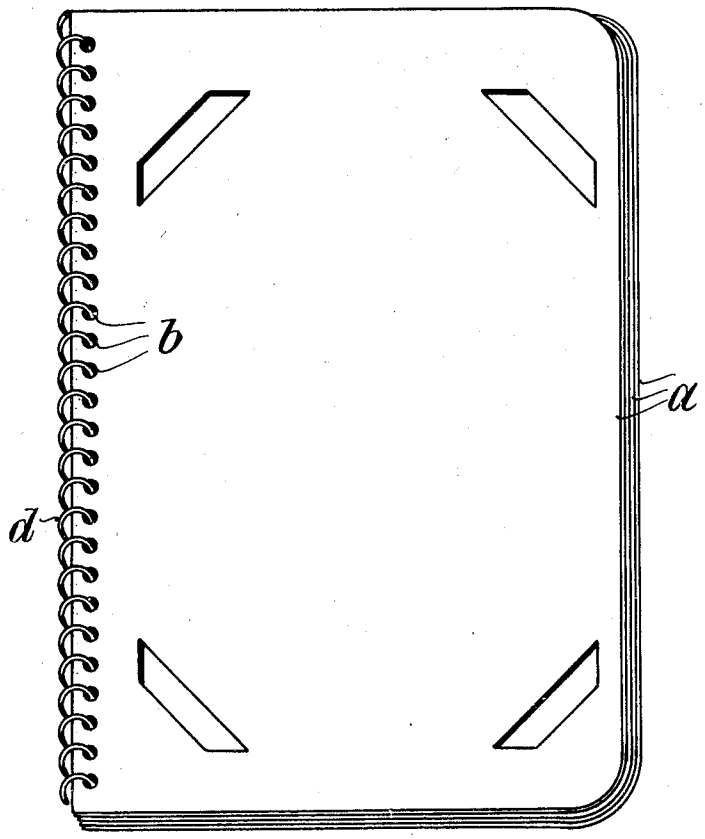
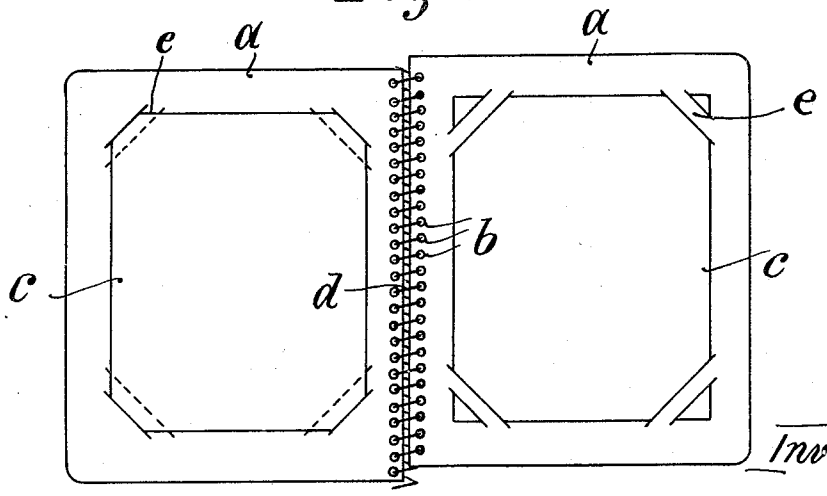


Fig. 2



Inventor:—

Ludwig Staab

by Paul P. Schilling

his attorney

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UNITED STATES PATENT OFFICE.

LUDWIG STAAB, OF HOFEN, NEAR JSNY, GERMANY.

NOTEBOOK WITH EXCHANGEABLE LEAVES.

Application filed May 7, 1923. Serial No. 637,320.

To all whom it may concern:

Be it known that I, LUDWIG STAAB, a citizen of the German Reich, residing at Hofen, near Jsny, Germany, have invented certain new and useful Improvements in Notebooks with Exchangeable Leaves (for which I have filed an application for patent in Germany on the 31st of March, 1922), of which the following is a specification.

Note books with loose leaves have become known already in which a spiral spring is used for holding the leaves together. In note books of this type the leaves were held either directly between the windings of the spiral spring or they were indirectly held by the spiral spring by means of intermediate pieces. According to the invention the spiral spring is screwed into holes stamped out of the sheets near the edge at a distance apart from one another which corresponds with the distance between the threads of the screw, the spiral spring forming thus at the same time the back of the book in the most perfect manner. Connections of this kind are frequently used and they have become known for instance as belt joints. The application of this joining means for the loose leaves of note books is however new and presents the advantage that a back of great resisting capability is produced.

An embodiment of the invention is shown by way of example on the accompanying drawing, wherein:

Fig. 1 shows the book closed.

Fig. 2 shows the book open.

The loose leaves *a* have perforations *b* near the edge to be fastened and further narrow strips *e* in the four corners which are produced by incisions and designed to hold indexes *c* or the like.

A spiral spring *d* is screwed through the perforations *b*, the screwing in being easily done. The spiral spring *d* serves not only for securely holding together the loose leaves along their whole length but it permits also the removal of any of the sheets from the book or the insertion of other sheets, the spiral spring *d* being screwed out of the perforations *b*, to be screwed in again after the sheets have been arranged.

This fastening together may be used also for other material as for instance for drawings or the like.

I claim:—

A note book with exchangeable leaves comprising in combination loose sheets each having perforations near one edge, said perforations being spaced from one another at a uniform distance, and a spiral spring the distance between the turns of which corresponds to the distance between the perforations, said spiral spring being screwed into said perforations of the superposed sheets.

In testimony whereof I affix my signature in presence of two witnesses.

LUDWIG STAAB.

Witnesses:

ALEXANDER DE LOTHE,

ALEXIS PHILIPPOFF.