

(No Model.)

2 Sheets—Sheet 1.

E. FRITH.
BOOK BACK OR COVER.

No. 529,614.

Patented Nov. 20, 1894.

Fig: 1.

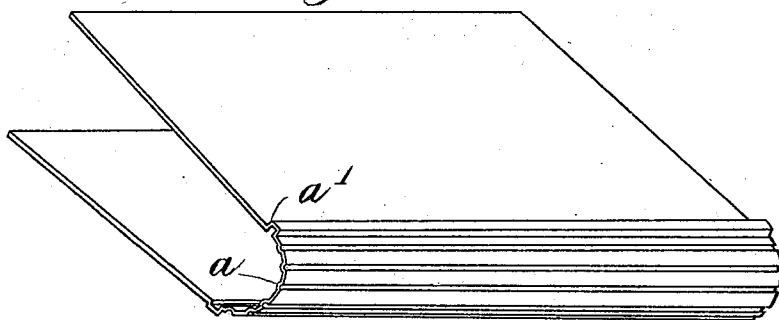


Fig: 2.

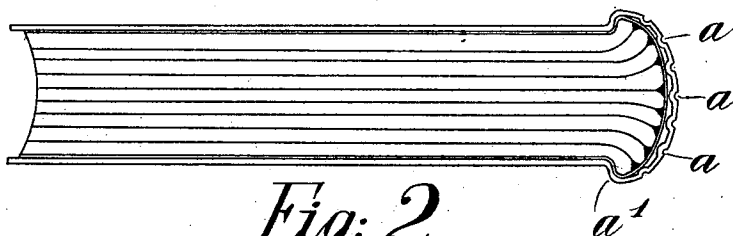
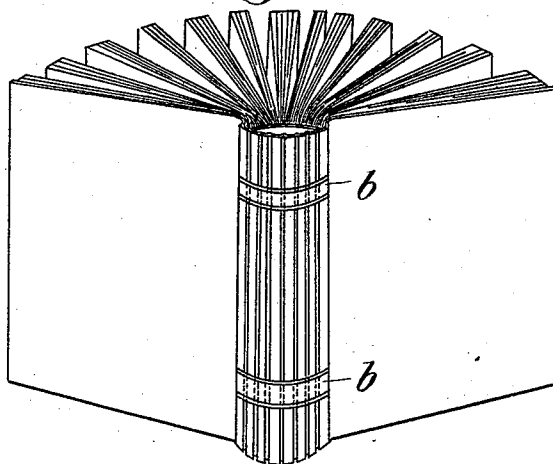


Fig: 3.



Witnesses.

Robert Everett,
Thos. A. Green

Inventor.

Eustace Frith.

By James L. Norris,
Atty

(No Model.)

2 Sheets—Sheet 2.

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BOOK BACK OR COVER.

No. 529,614.

Patented Nov. 20, 1894.

Fig. 4.

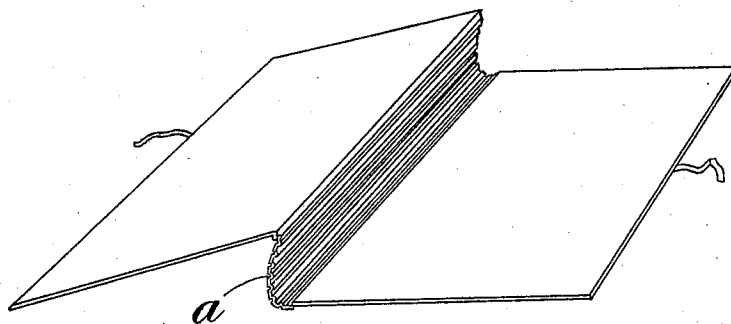
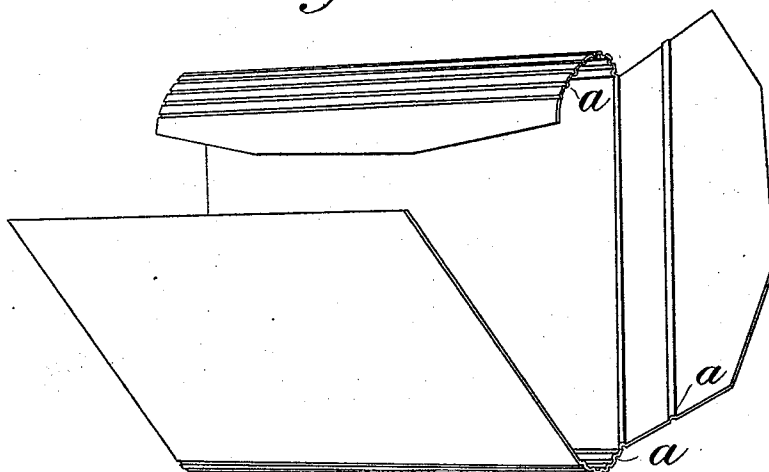


Fig. 5.



Witnesses.

Robert Everett,
Thos. A. Green

Inventor.
Erustace Frith.
By James L. Norris.
Atty.

UNITED STATES PATENT OFFICE.

EUSTACE FRITH, OF LONDON, ENGLAND.

BOOK BACK OR COVER.

SPECIFICATION forming part of Letters Patent No. 529,614, dated November 20, 1894.

Application filed July 16, 1894. Serial No. 517,702. (No model.) Patented in France March 20, 1894, No. 237,177, and in Belgium March 21, 1894, No. 109,091.

To all whom it may concern:

Be it known that I, EUSTACE FRITH, photographic publisher, a subject of the Queen of Great Britain, residing at North Albert Road, Reigate, London, in the county of Surrey, England, have invented new and useful Improvements in Book Backs or Covers, (for which I have obtained Letters Patent in France, No. 237,177, bearing date March 20, 1894, and in Belgium, No. 109,091, bearing date March 21, 1894,) of which the following is a specification.

The invention is designed to provide a new and improved back or cover for a book or the like from one continuous piece of "board" or other suitable material, the hinges and back being produced from the rigid material of the primary sheet by pressure, creasing or crushing thereof at the parts to be rendered pliable. The requisite creasing to give pliability or flexibility in the desired direction to that portion of the sheet arched so as to form the back may be effected by means of a top and bottom die, each die projecting where the other is recessed so that a ridge and furrow are produced and where the hinges for the sides of the cover come, I form a trough crease by means of a machine such as is described and illustrated in the specifications of Patents Nos. 12,043 and 23,735, of 1892, granted in Great Britain to Teodor Remus, so as to give the utmost possible flexibility and resilience and to minimize danger of fracture in use of the material; on the creasing and pressure to produce the arched back may be effected by means of rolls, or a combination of dies and rolls, performing the same functions as the dies alone and constructed in analogous fashion. For a book cover the sheet of material so treated may be decorated to taste to resemble leather or cloth and be gilded, or otherwise ornamented, and be connected to the body of the book in the usual or other convenient manner.

In the drawings Figure 1 shows a perspective view of a book cover, separately from the book or contents. Fig. 2 shows an edge view of a book with cover thereon, which cover it will be seen is in one continuous piece. Fig. 3 shows a cover as it appears from the back with the book opened and in this

example two lettering panels are shown as being pasted over the arched back. Fig. 4 shows an example of the adaptation of the invention to form a filing case, and Fig. 5 shows another form of the application of the invention to a stationery case.

In the first instance a stiff sheet of "board" is taken and, by means of dies, creases are made as at *a, a, a*, weakening the rigidity of the material but not decreasing its tensile strength. On the contrary the material will be found less liable to tear where it has been creased than elsewhere. For a book cover, in order to provide for the greater play for folding required at the junction *a'* of the rigid sides and the now flexible cover, deeper creases of trough form are made there.

By the use of such machinery as is described in the specifications of patents granted in Great Britain to Teodor Remus, dated and numbered respectively, June 28, 1892, No. 12,043, and December 23, 1892, No. 23,735, I am enabled to produce the creases *a* and *a'* of the proper form and possessing the requisite properties. The creases *a* may be produced by means of pressure in dies the larger or hinge creases *a'* being produced by the use of the aforesaid patented machinery.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

As a new article of manufacture, the herein described case or cover, consisting of a continuous sheet of leather-board or like rigid material provided with a hinged and flexible corrugated arched back integral with the said sheet having longitudinally arranged grooves or creases in the back and hinges, the said creases in the hinges being of greater depth than the creases in the arched back, substantially as and for the purposes set forth.

In testimony whereof I, the said EUSTACE FRITH, have hereunto set my hand this 27th day of June, 1894.

EUSTACE FRITH.

Witnesses:

JOSEPH LAKE,
W. J. NORWOOD.