

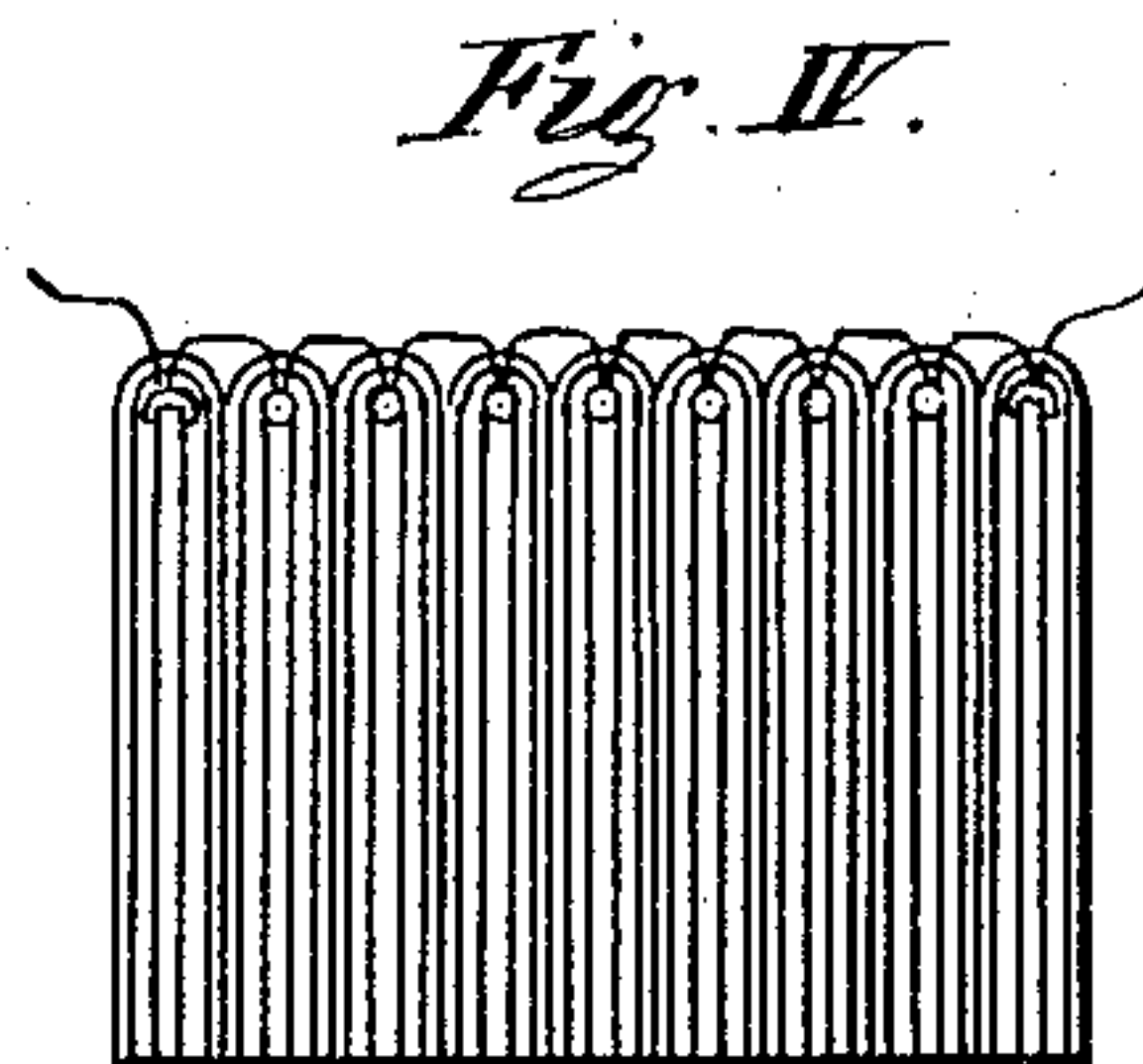
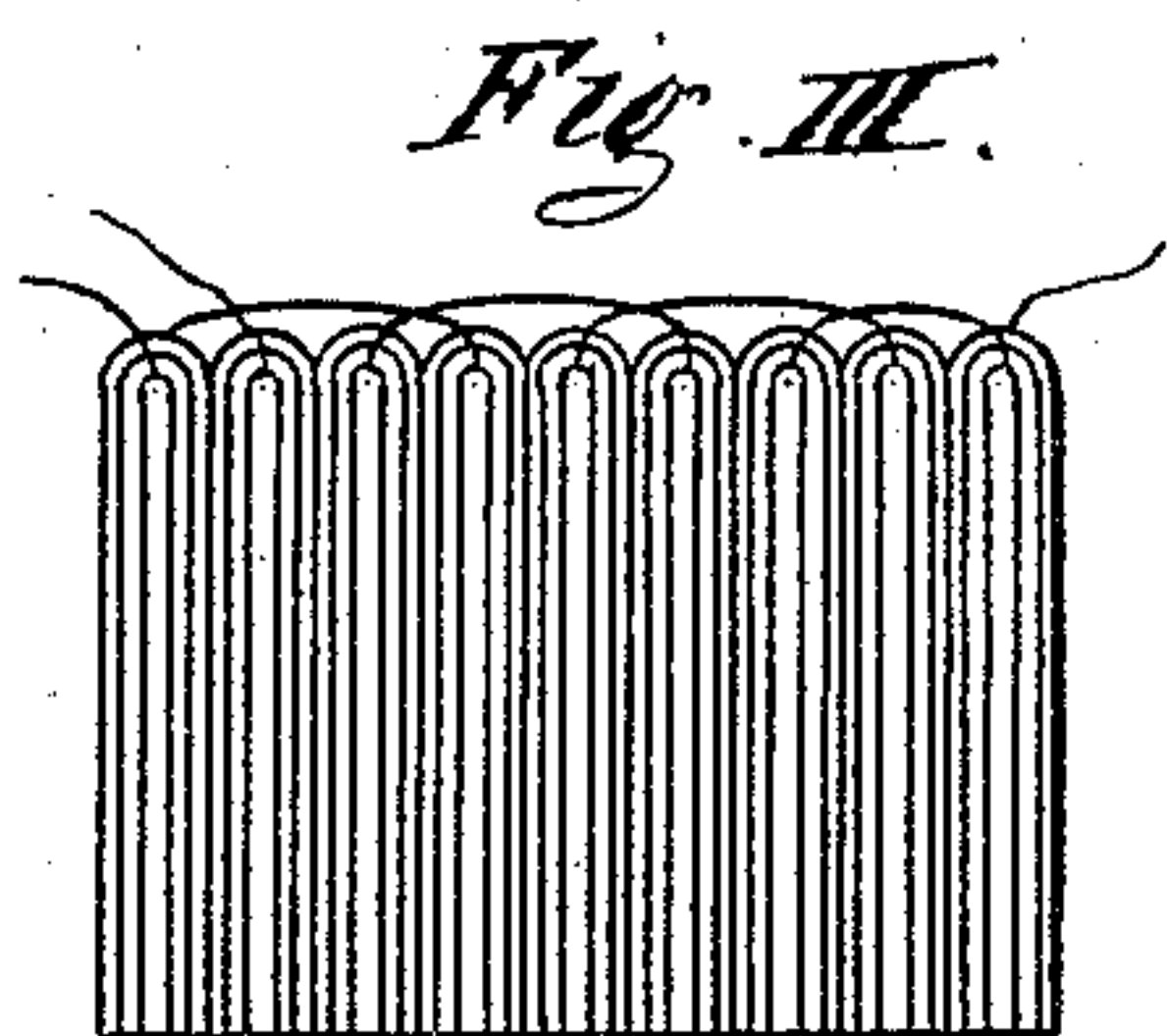
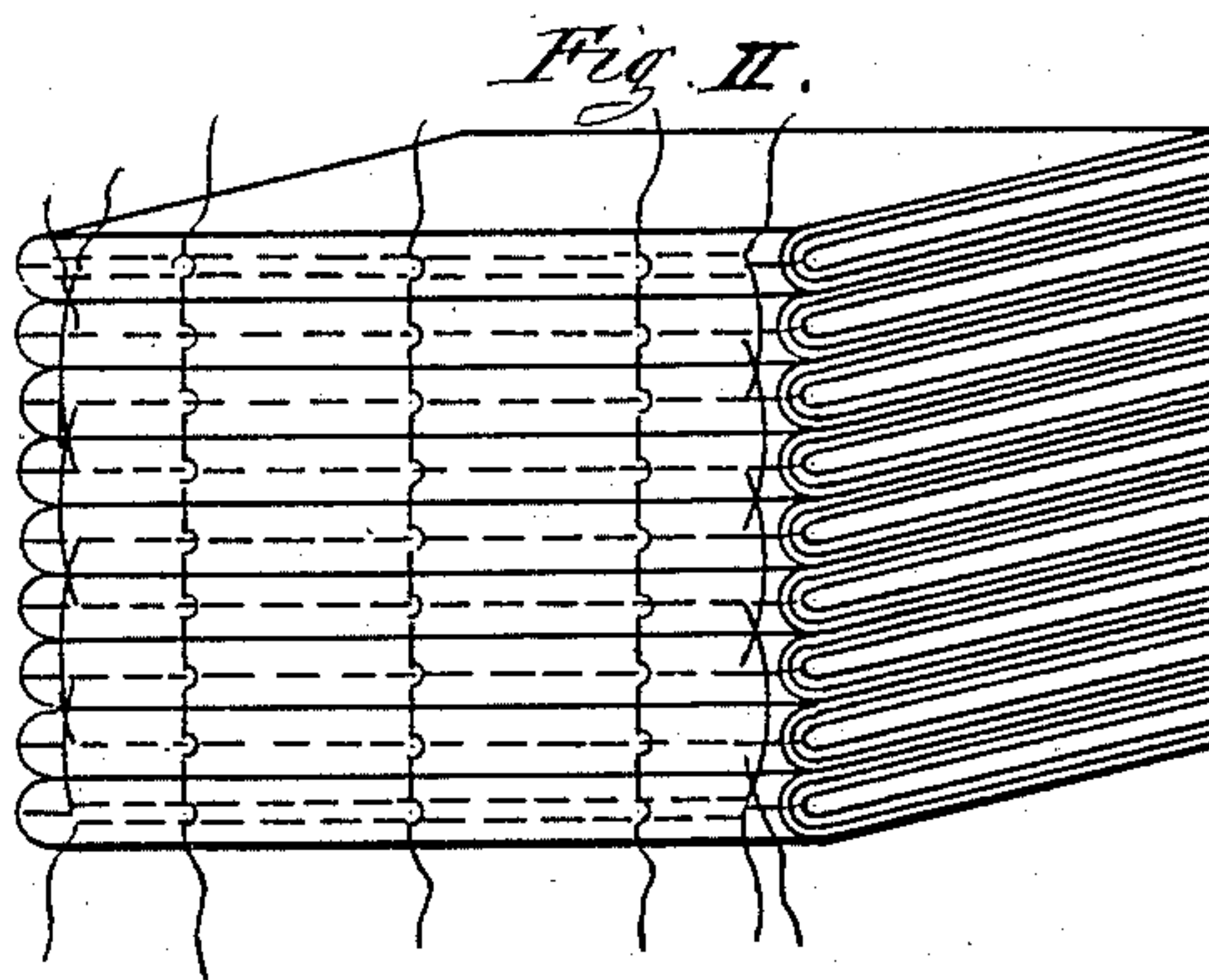
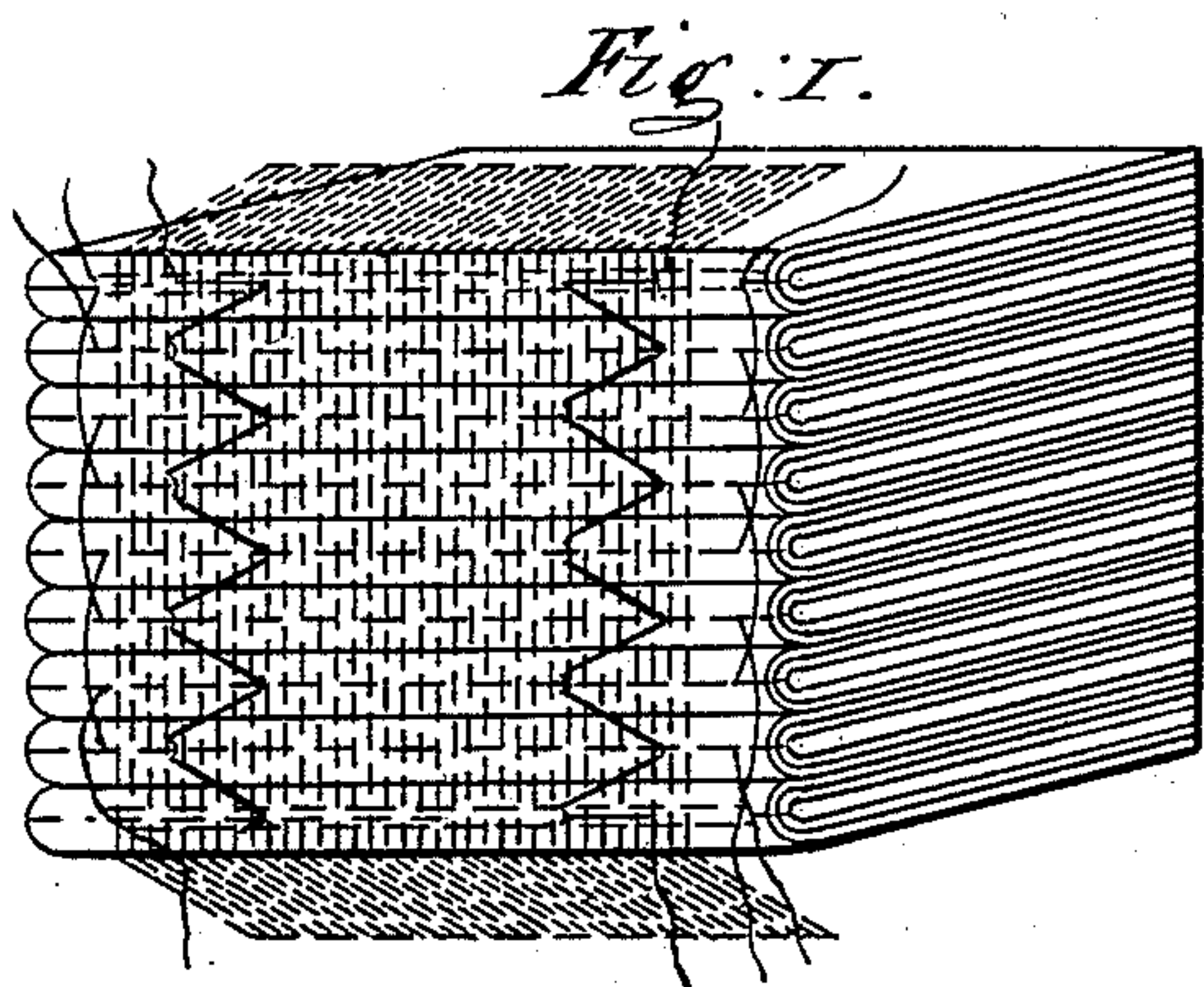
(No Model.)

A. BREHMER & G. BROWN.

BINDING BOOKS.

No. 312,606.

Patented Feb. 24, 1885.



Witnesses.
John F. Allen
Jacob Kottlowsky

Inventors.
August Brehmer
Gavin Brown
per Henry E. Raeder
Attorney.

UNITED STATES PATENT OFFICE.

AUGUST BREHMER, OF LEIPSIC, GERMANY, AND GAVIN BROWN, OF
GLASGOW, SCOTLAND.

BINDING BOOKS.

SPECIFICATION forming part of Letters Patent No. 312,606, dated February 24, 1885.

Application filed March 18, 1884. (No model.) Patented in Belgium July 25, 1883, No. 62,126; in England July 31, 1883, No. 3,742,
and in France August 7, 1883, No. 156,911.

To all whom it may concern:

Be it known that we, AUGUST BREHMER, a
subject of Germany, residing in Leipsic, Ger-
many, and GAVIN BROWN, a subject of Great
5 Britain, residing in Glasgow, Scotland, Great
Britain, have invented certain Improvements
in Binding Books, of which the following is a
specification, and for which Letters Patent
have been granted to us by the governments of
10 Belgium on July 25, 1883, No. 62,126; of
France on August 7, 1883, No. 156,911, and
of Great Britain on July 31, 1883, No. 3,748.

The binding of books by means of a ma-
chine for which we have filed an application
15 for Letters Patent in the United States on July
18, 1883, Serial No. 101,201, and of which
the following formed originally a part, is
produced either by means of shuttle-threads
running from section to section of the book
20 or by means of one or more shuttle-threads
with needle-threads passing around the shut-
tle-thread, either in a straight line, or the
needle-threads may run in a zigzag way over
the back of the book, in order to obtain a
25 stronger hold upon the several sections and
upon the backing material. In some of these
arrangements the ends of the sections are
cut by an arrangement in the machine, so
that the shuttle-threads passing from one sec-
30 tion to the other section will be brought far
enough from the edge to allow of the neces-
sary trimming or cutting of the same when
fastened to their cover in book form.

This invention consists in a book sewed with
35 three continuous threads so that the thread
from the first section passes into the fourth

section, the one from the second into the fifth,
the one from the third into the sixth, and so
on, substantially as hereinafter set forth.

In the accompanying drawings, Figure I rep- 40
resents a perspective view of a book sewed
on crash or open cloth with three shuttle-
threads and two needle-threads, the latter
being shifted sidewise in a zigzag manner.
Fig. II represents a similar view of a book 45
sewed without backing material with three
shuttle-threads and three needle-threads, the
latter not being zigzag. Fig. III represents
an end view of Fig. I, showing the course
which the shuttle-threads follow while running 50
from section to section of the book; and Fig.
IV represents an end view of Fig. II, showing
the course of the needle-threads, which pass
around the shuttle-threads.

In all of said figures A designates the shut- 55
tle-threads, B the needle-threads, and C the
sections of the book.

What we claim as our invention, and desire
to secure by Letters Patent, is—

A book sewed with three continuous threads 60
so that the thread from the first section passes
into the fourth section, the one from the sec-
ond into the fifth, the one from the third into
the sixth, and so on, substantially as set forth.

AUGUST BREHMER.
GAVIN BROWN.

Witnesses:

OSW. SCHMIDT,
HERMANN NAUNDORF,
J. H. McDOUGALL,
THOS. McKEAN.