

March 27, 1928.

H. C. KEELER

BOOK STRAP

Filed Jan. 22, 1927

1,663,708

Fig. 1

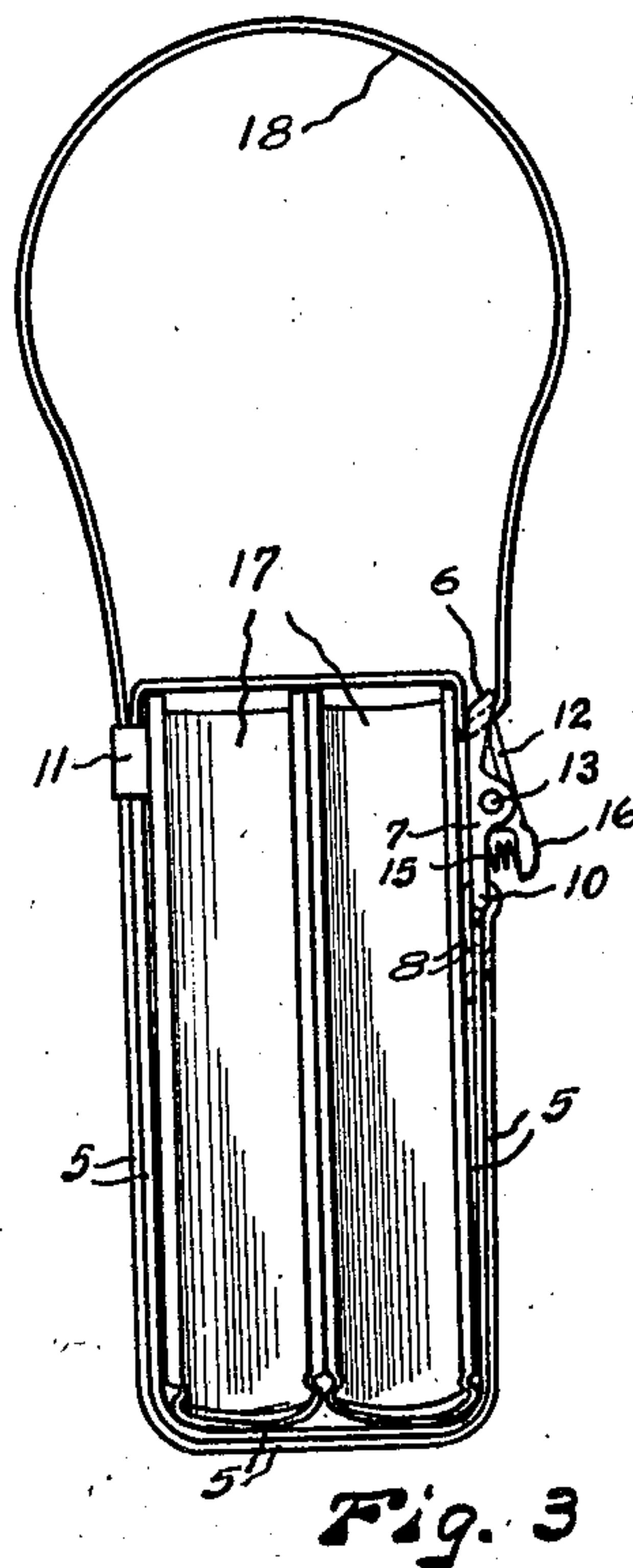
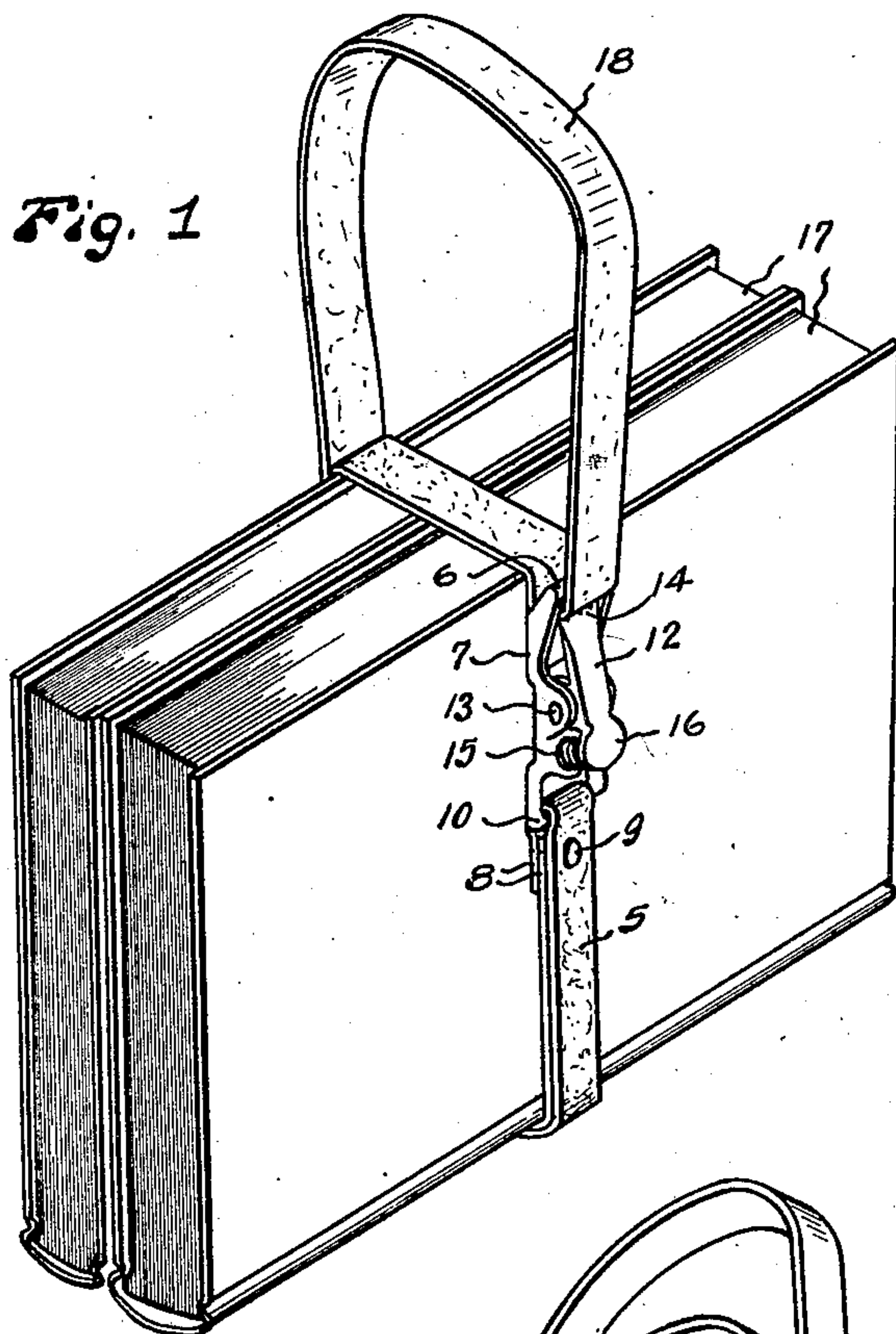


Fig. 3

Fig. 2

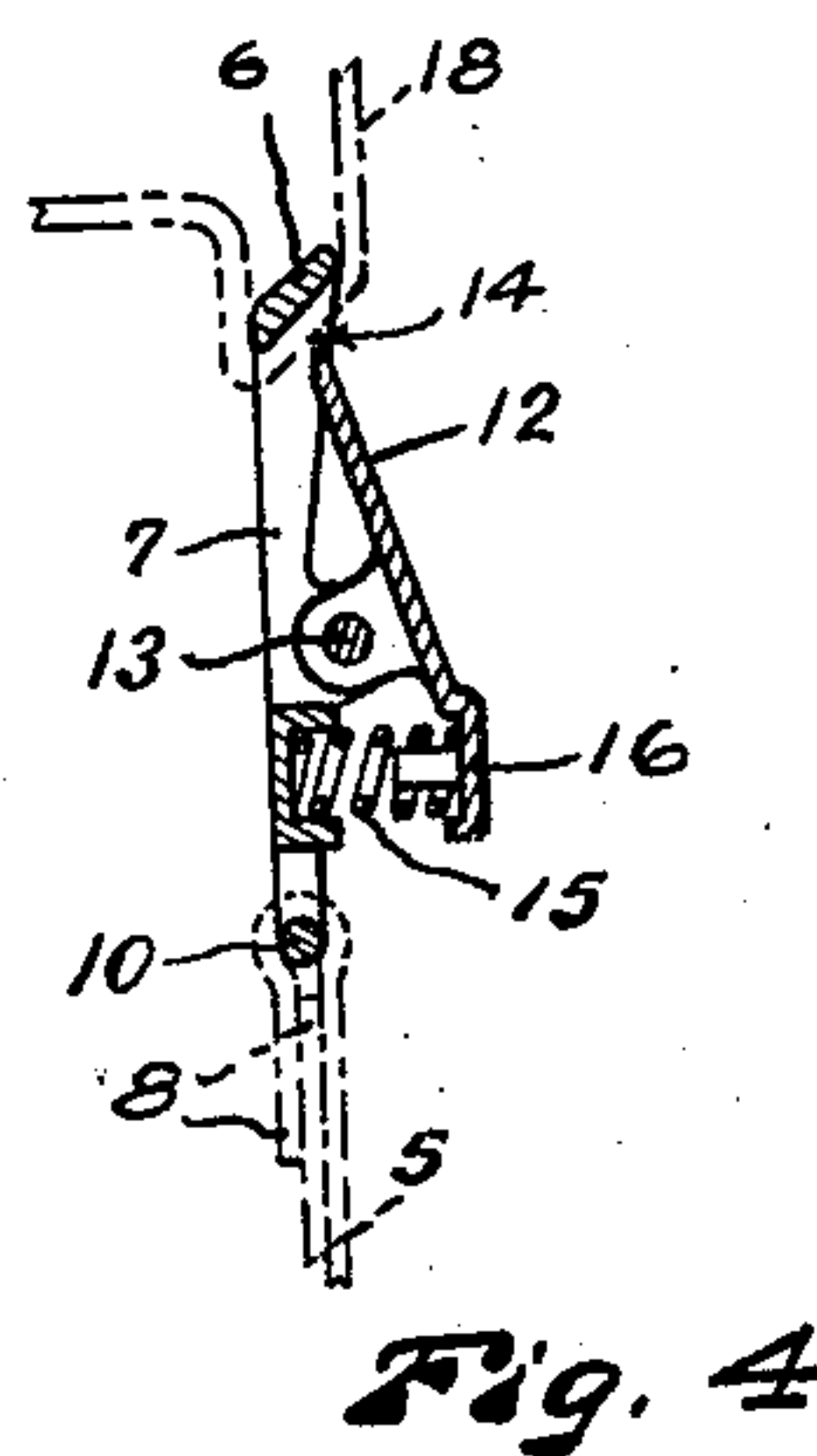
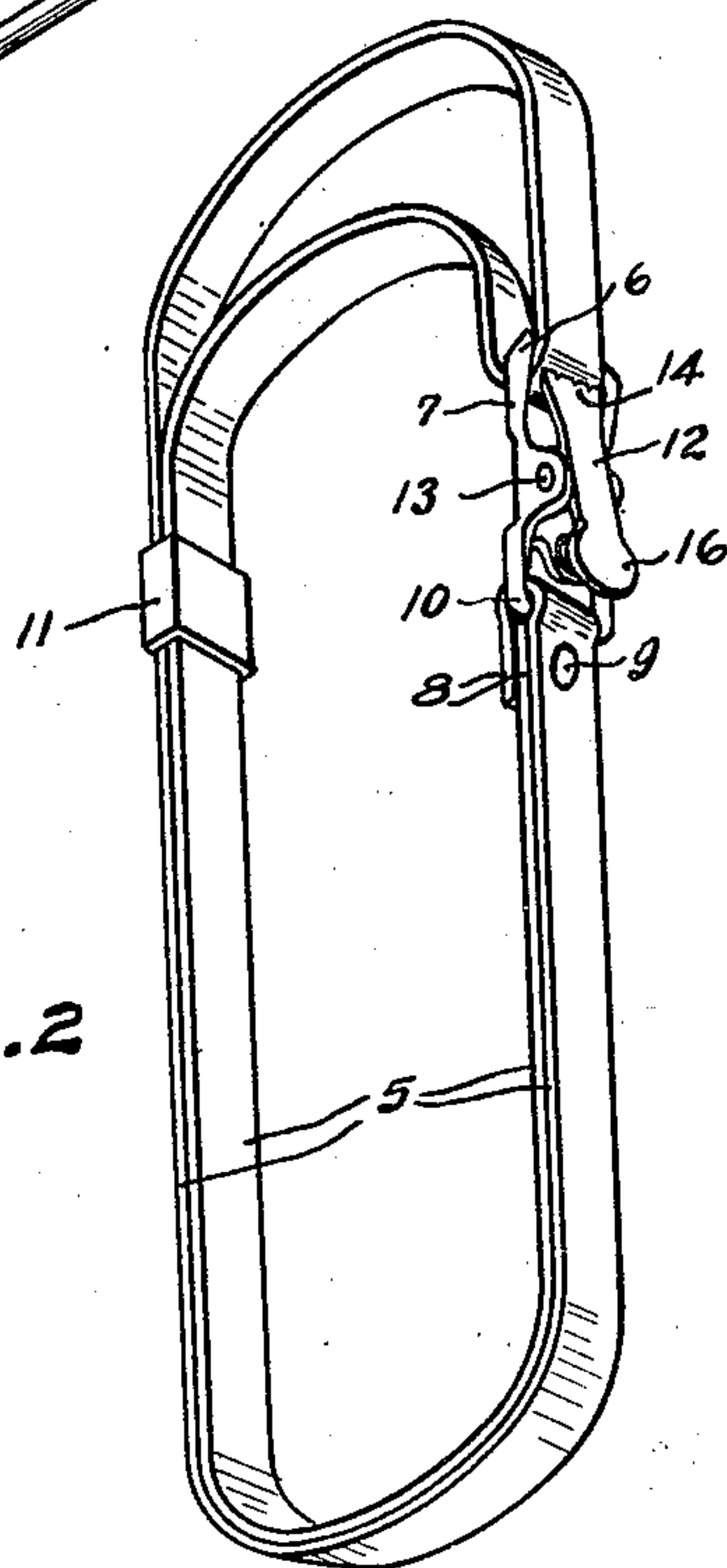


Fig. 4

INVENTOR
Henry C. Keeler
BY
Frank Warren
ATTORNEY

Patented Mar. 27, 1928.

1,663,708

UNITED STATES PATENT OFFICE.

HENRY C. KEELER, OF RITSEL, WASHINGTON, ASSIGNOR TO ALVA C. CLARK, OF SEATTLE, WASHINGTON.

BOOK STRAP.

Application filed January 22, 1927. Serial No. 162,783.

My invention relates to improvements in book or luggage straps and is in the nature of an improvement on the book strap disclosed in my copending application Serial No. 93,014, filed March 8, 1926.

The object of my invention is to improve the construction of book straps of this nature and to render the same more efficient in operation.

A more specific object is to provide an endless book strap that is easily placed around books or similar objects and tightened thereon and that has a buckle or fastener within the loop portion of said strap which buckle is adapted to hold the strap from working loose on the books, said buckle being quickly and easily releasable manually.

Other and more specific objects will be apparent from the following description taken in connection with the accompanying drawings, wherein—

Figure 1 is a perspective view of a book strap constructed in accordance with my invention as it may appear when in use;

Fig. 2 is a perspective view showing the strap removed from the books;

Fig. 3 is an end elevation of the same showing the strap tightened around books; and

Fig. 4 is a sectional view on a larger scale of the buckle used in connection with my book strap.

Referring to the drawings, throughout which like reference numerals indicate like parts, 5 designates a single one piece strap that is passed slidably through one end 6 of a buckle 7 and that has its two ends, as at 8, fixedly secured, as by rivet 9, to the other end 10 of the buckle 7 so that said strap forms in effect a loop of double thickness fixedly connected with one end of the buckle and slidably connected with the other end of the buckle. The loop formed by the strap is double thickness, one part being on the inside of the loop. Both of said parts pass slidably through a keeper 11.

The end 6 of the buckle 7 is made with an inclined surface as shown in Fig. 4 and said buckle has a flat tongue 12 mounted on a pivot 13 and provided with a relatively broad edge 14 that is adapted to cooperate with the inclined buckle end 6 in gripping the strap. The edge 14 is sharp enough to

securely grip the strap by a wedging action

but is not sharp enough to cut the strap. Said edge 14 is preferably notched to cause it to grip the strap more firmly. A compression spring 15 urges the tongue 12 into engagement with the strap 5 and said tongue may be moved to disengage or release the strap exerting a pressure on a thumb piece 16 on the tongue. From the preceding description it will be seen that the loop portion of the strap may be readily drawn through the buckle in one direction but can not be drawn through the buckle in the opposite direction unless the tongue 12 is manually raised or released.

In placing the strap on books 17 the strap is opened out as shown in Fig. 2 and the books are inserted within the loop and a pull is exerted on the outer portion of the strap between the keeper 11 and the end 6 of the buckle thereby pulling the strap through the end of the buckle tightening the same around the books and drawing out the portion on which the pull is exerted to form a hand hold or loop 18 for engagement by the hand or arm in carrying. In tightening the strap on the books the keeper 11 and buckle 7 are preferably adjusted so that they are substantially opposite to each other and near the top edge of the books thereby preventing the books from turning over or twisting within the strap. When the strap is applied to the books in the manner just described a pull on the hand hold portion 18 will draw the strap through the buckle and tighten the same on the books and said buckle will engage with and hold the strap and prevent the same from loosening. To loosen the strap on the books a pressure is exerted on the thumb piece 16 thereby raising the tongue 12 and permitting the strap to be drawn back through the buckle and loosened.

The strap is exceedingly simple in construction, holds the books positively, has no loose parts to become lost and is very easily and quickly put onto or removed from books or packages.

It is also possible to reverse the position of the strap on the books letting the outer portion of the strap between the keeper 11 and the end 10 of the buckle serve as a hand hold but the strap is more difficult to apply to the books and to remove the books from when used in this manner.

The foregoing description and accompany-

ing drawings clearly disclose a preferred embodiment of my invention but it will be understood that this disclosure is merely illustrative and that such changes in the device may be made as are within the scope and spirit of the following claims.

What I claim is:—

1. A book strap, embodying a buckle, a strap member having its two ends fixedly connected with one end of said buckle and having its medial portion slidable through the other end of said buckle, said strap forming a loop of double thickness, a keeper slidable on said strap, and a releasable spring pressed tongue in said buckle normally holding said strap against sliding movement in one direction through said buckle.

2. The book strap as described in claim 1 in which those portions of said strap adjacent the fixedly secured ends are adapted to pass around books and the inner portion of the strap adjacent the slidable connection with the buckle is arranged to be drawn across the top edge of said books and the outer portion of said strap adjacent said slidable connection with said buckle is arranged to form a handhold loop.

3. A book strap, embodying a buckle, a single strap member having its two ends fixedly connected with one end of said buckle, said strap being doubled and the medial portion of said strap member being slidable through the other end of said buckle, a keeper slidable on the doubled portion of said strap, and manually releasable means in said buckle for normally permitting sliding movement of said strap through said buckle in one direction and preventing sliding movement of said strap in the opposite direction, said strap being adapted to be placed around books with said buckle near the upper edge of the books on one side and said keeper near the upper edge of the books on the other side, the inner portion of said strap being drawn across the top of said books and the outer portion of said strap being drawn upwardly through said buckle to form a hand hold said buckle preventing loosening of said book strap until said buckle tongue is released.

In witness whereof, I hereunto subscribe my name this 15th day of January A. D. 1927.

HENRY C. KEELER.