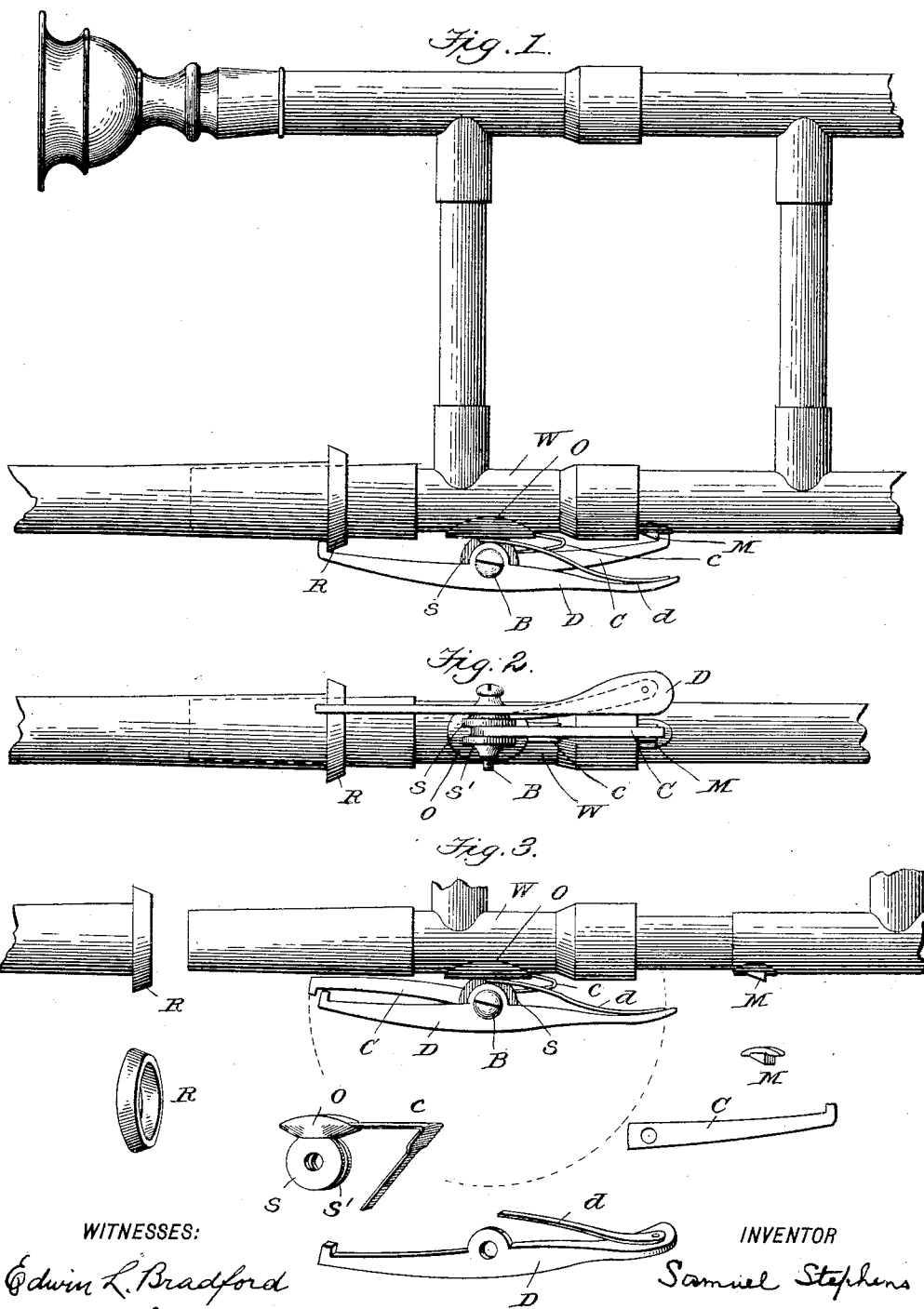


(No Model.)

S. STEPHENS.
SLIDE TROMBONE.

No. 532,108.

Patented Jan. 8, 1895.



UNITED STATES PATENT OFFICE.

SAMUEL STEPHENS, OF NORRISTOWN, PENNSYLVANIA.

SLIDE-TROMBONE.

SPECIFICATION forming part of Letters Patent No. 532,108, dated January 8, 1895.

Application filed July 18, 1894. Serial No. 617,881. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL STEPHENS, a citizen of the United States, residing at Norristown, in the county of Montgomery and State of Pennsylvania, have invented new and useful Improvements in Slide-Trombones; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a locking attachment for preventing inadvertent separation of the parts of the instrument from the connecting tube when being handled and not in use.

In the accompanying drawings, Figure 1 is a side elevation showing my invention as applied to an instrument showing the locking latches or catches in operative position. Fig. 2 is a view at right angles with that in Fig. 1, also showing the latches in position. Fig. 3 shows the parts of the instrument separated from each other, the catches being disconnected from both sections and one of the catches reversed and held by a controlling spring, this figure also including views of details of construction.

W is the usual connecting tube with one end of which the bell portion is coupled and with the other end of which the slide is telescopically coupled. To the connecting tube W, I attach a plate O having perforated flanges s and s' one of which is threaded for holding a screw or pivot B. Pivoted on said screw B are the latches or catches C and D. These latches are held in the desired or operative position by means of springs c and d respectively. The spring c serves to hold its latch in its unlocked position as well as in its closed position. The latch C is mounted between the flanges s and s' while latch D works outside of flange s.

R is an annular band or collar secured at or near the end of the bell section to form a shoulder with which the catch D interlocks to secure said section to the connecting tube.

M is a lug or stud secured to the slide portion of the instrument with which the swinging catch C interlocks.

When the instrument is in use, the latch C is swung on its pivot to the unlocked position shown in Fig. 3 where it is held by its controlling spring until said catch is required for locking the slide to the connecting tube.

Having now described my invention, what I claim is—

1. In a trombone, the combination of the connecting tube, the bell portion having a collar or shoulder near its coupling end and a latch attached to the tube for interlocking said tube and bell section, substantially as described.

2. In a trombone, the combination of a connecting tube the slide portion provided with a lug and a latch attached to the tube for locking the tube and the slide together, substantially as described.

3. In a trombone, the combination of the connecting tube, the bell-section and the slide portion, provided with collar and lug respectively and pivoted catches or latches for interlocking the parts, substantially as described.

4. In a trombone, the combination of the connecting tube, the slide section having a lug, a swinging latch or catch for locking the tube and slide portions together and a spring for holding the latch in its locked and in its unlocked position, substantially as described.

SAMUEL STEPHENS.

Witnesses:

S. M. MILLER,
GEORGE LINDSAY.