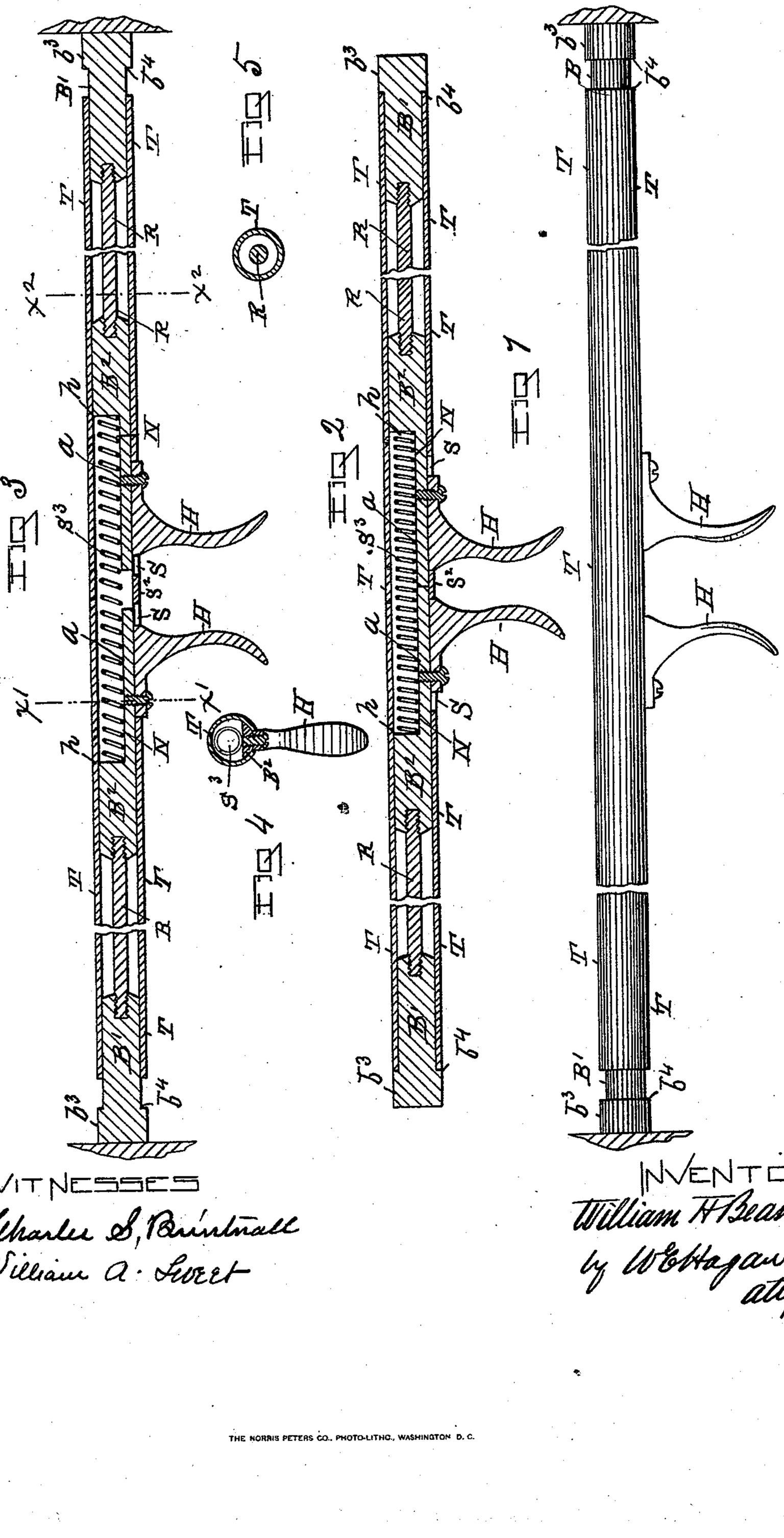
(No Model.)

W. H. BEAN.

CURTAIN FIXTURE FOR CARS.

No. 528,501. Patented Oct. 30, 1894.



WITNESSES

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WILLIAM H. BEAN, OF WEST TROY, NEW YORK, ASSIGNOR TO JOHN H. JONES, OF SAME PLACE.

CURTAIN-FIXTURE FOR CARS.

SPECIFICATION forming part of Letters Patent No. 528,501, dated October 30, 1894.

Application filed April 18, 1894. Serial No. 507,952. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BEAN, of the village of West Troy, county of Albany, and State of New York, have invented a new and useful Improvement in Curtain-Fixtures for Cars, of which the following is a specification.

My invention relates to improvements upon that class of curtain fixtures which are arranged within a tube, that is connected to the bottom of a curtain, and having a bar within the tube at each end thereof, which bars are actuated to engage with the jambs or sides of the window frame by means of spiral springs contained within the tube, and are operated to release the detention of the curtain for adjustment, by means of levers or handles, which are moved inwardly toward each other, against the force of the springs; and the object and purpose of my improvement upon this class of devices are to cheapen the cost of making and to simplify their construction. As heretofore made this class of devices have consisted of two bars arranged within a tube, that was attached to the bottom of the curtain, and with each of said bars provided with a spring, against the force of which springs, both bars could be drawn inwardly to release the curtain detention for adjustment.

My improvement upon these older devices consists in so constructing them, that a single spring will operate both bars and cause them to engage with the window jambs or frame to hold the curtain in position, and against the force of which single spring the curtain detention is released for adjustment by two handles, one of which is connected with each of the bars, and by which the latter are drawn inwardly against the force of the intermediately placed spring.

Accompanying this specification to form a part of it there is a plate of drawings containing five figures illustrating my invention, with the same designation of parts by letter reference used in all of them.

Of the illustrations Figure 1 is a side elevation of the device shown as broken apart. Fig. 2 is a central vertical section taken from end to end longitudinally with the bars shown as drawn away from their engagement with the window jambs by the handles. Fig. 3 shows a like section to that illustrated at Fig. 2, but with the bars as acted upon by the spring to engage with the window jambs or frame. Fig. 4 is a cross section taken on the line x', x', of Fig. 3, and Fig. 5 is a cross section taken on the line x^2, x^2, of Fig. 3.

The several parts of the apparatus thus illustrated are designated by letter reference and the function of the parts is described as follows:

The letters S, S, designate two slots formed on the under side of the tube for the movement laterally of the operating handles, and the letter S^2 designates a stop arranged between the two slots indicated at S.

The letters B′, B′, designate the curtain detaining bars arranged within the tube T, at each end thereof, and free to be moved outwardly and inwardly therein. Each of these bars is made with a head b^3, and having a shoulder b^4, which latter when the bars are drawn inwardly abut against the ends of the tube T. The curtain is not shown. Each of the bars B′ connects by means of a rod R, with an inner bar B^2, so that the latter and the bars B′, move together. The bars B^2 are each of them recessed or cut away longitudinally on their inner ends at a, and made with a shoulder h, the space between the shoulders of the two bars B^2, forming a spring receptacle, with the outer ends of the spring S^3 placed therein and caused to abut against the shoulder h, of each of the bars B^2, where cut away.

The letters N designate the part of the bars B^2 where cut away at a, to form the inclosure for the spring S^3.

The letters H designate handles of which there is one attached to the inner ends of each of the two bar-parts B^2; the handles each passing through one of the slots S, made in the bottom of the tube. These handles as arranged are extended downwardly and when grasped and drawn toward each other they move in the slots S and draw the bars B^2, and connected bars B′, inwardly away from their engaging pressure contact with the jambs of the window. When this grasp of the handles is released the bars are forced from out each end of the tube to engage with the window jambs by the spring S^3, within the tube, with

the ends of the spring abutting against the shoulder upon the bar parts. While I have shown the bar-parts B′, B² at each end of the tube as separately made and connected by the rod R, they may each be made in one piece, for they operate as if so made, and the rod R may be dispensed with, the only advantage from making them in two parts being to reduce the weight of the fixture. As thus made and arranged curtain fixtures of this class have fewer working pieces than the older devices in use for the same purpose, they are less liable to get out of order, and they can be made at less cost.

I do not broadly claim the combination of two bar parts and their inclosing tube with a spring interposed between the said parts to force them out through the ends of the said tube, being aware that this is not broadly new.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a curtain fixture the combination with a tube made with two handle-slots in its under surface, of two bar-parts arranged within said tube to project beyond its ends, and each cut away longitudinally on its inner end to form thereat a spring-abutting shoulder; a spiral spring arranged within said tube between said bar-shoulders adapted to force outwardly said bars; a handle arranged within each of said bottom slots, and each connected to one of said bars where cut away, with said handles when moved inwardly toward each other adapted to draw inwardly said bars against the recoil force of the spring each bar part consisting of bars B′ and B² connected by a rod R, substantially in the manner as and for the purposes set forth.

2. The bars B′ provided with heads in combination with inner bars B² connecting rods R screwed at their ends into these bars, a spring interposed between the said bars B² to force them apart, a slotted tube containing and guiding all the aforesaid bars but allowing the heads to protrude at its ends and triggers attached to the said bars B² and protruding through the slotted tube substantially as and for the purpose set forth.

Signed at Troy, New York, this 12th day of July, 1893, and in the presence of the two witnesses whose names are hereto written.

W. H. BEAN.

Witnesses:
W. E. HAGAN,
CHARLES S. BRINTNALL.