

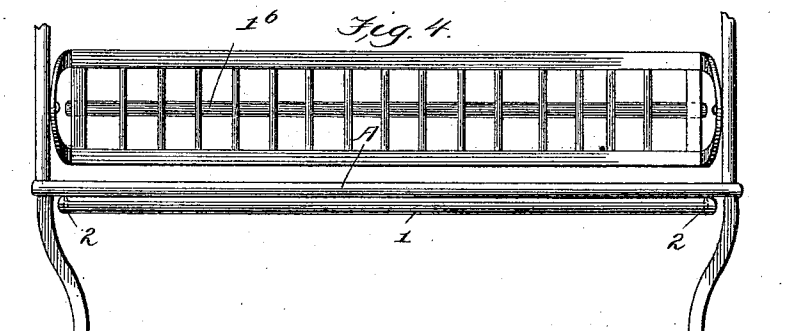
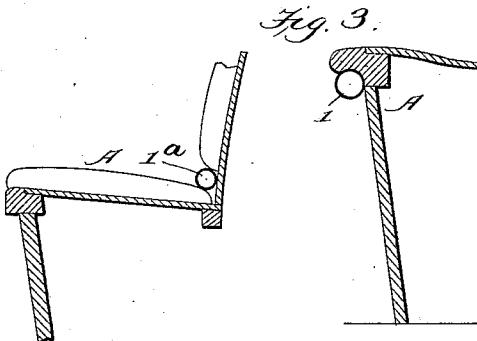
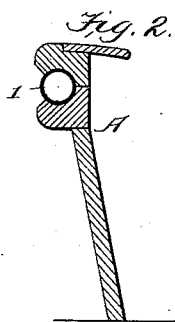
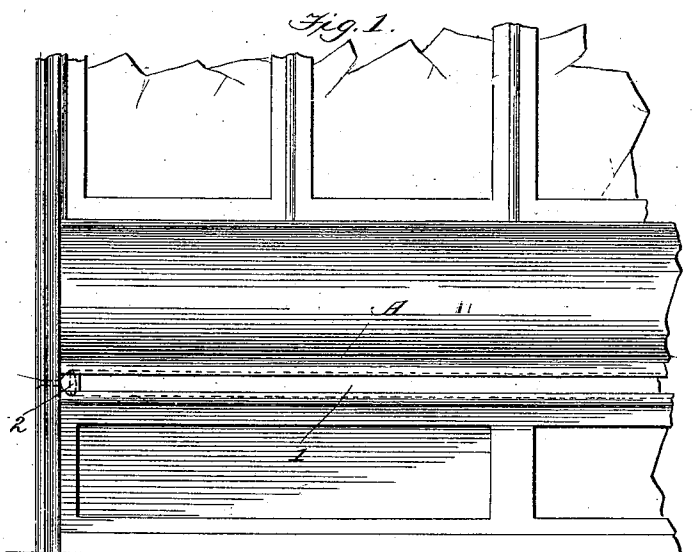
(No Model.)

4 Sheets—Sheet 1.

J. S. A. BAKER.
CAR SIGNAL.

No. 543,955.

Patented Aug. 6, 1895.



WITNESSES:

W. W. Dudley
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INVENTOR

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BY *J. D. Starkbridge*

ATTORNEYS

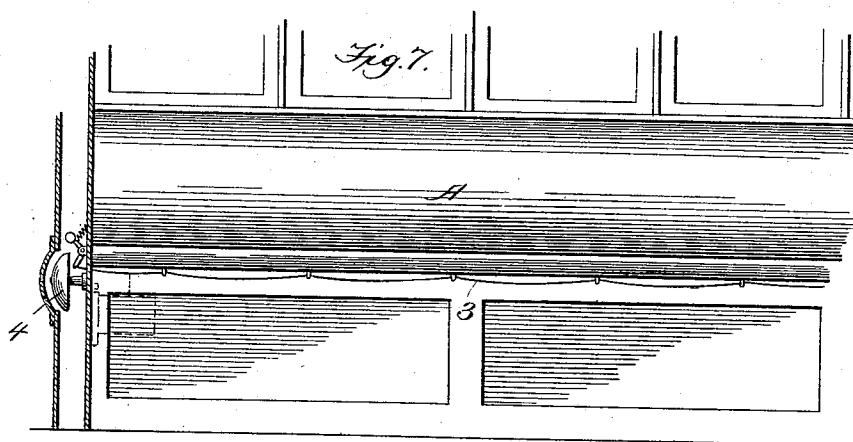
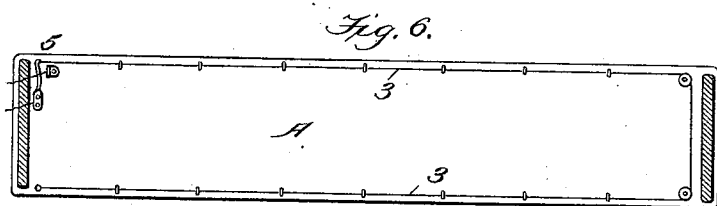
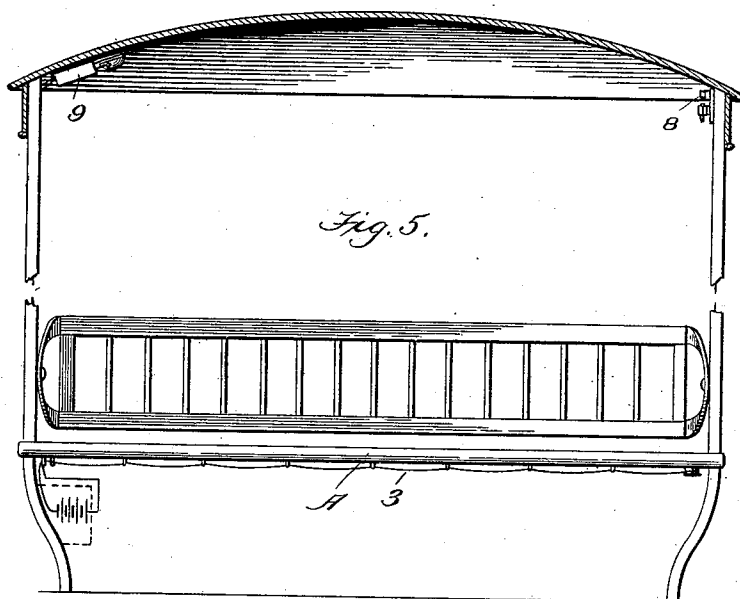
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(No Model.)

4 Sheets—Sheet 3.

J. S. A. BAKER.
CAR SIGNAL.

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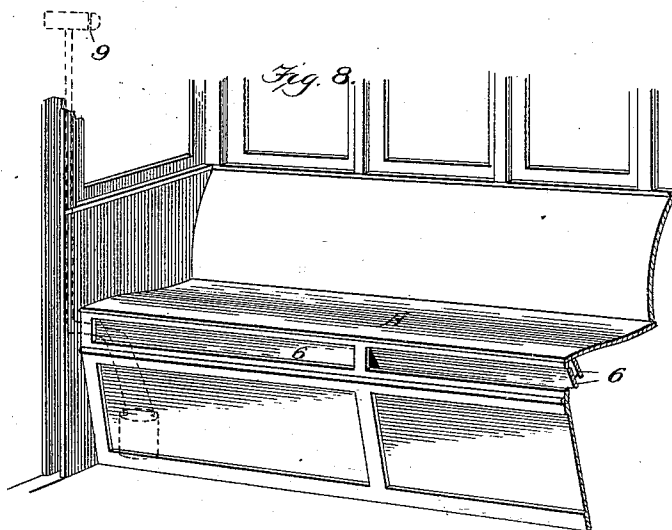


Fig. 9.

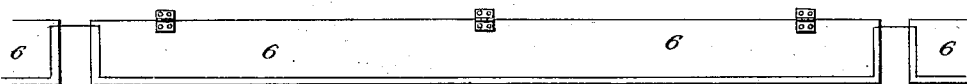


Fig. 10.

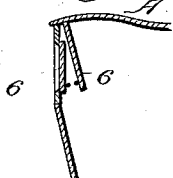
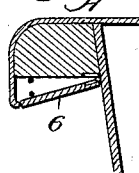


Fig. 11.



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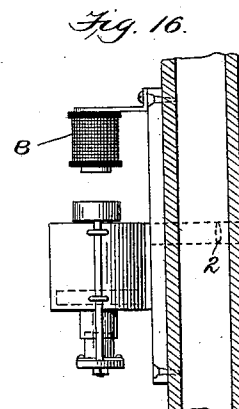
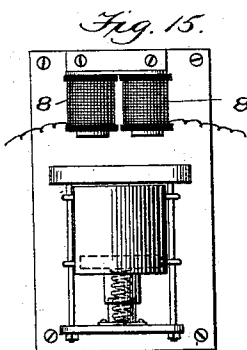
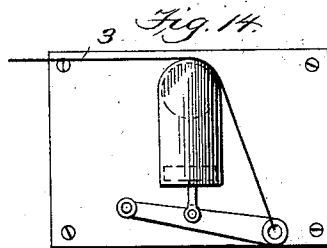
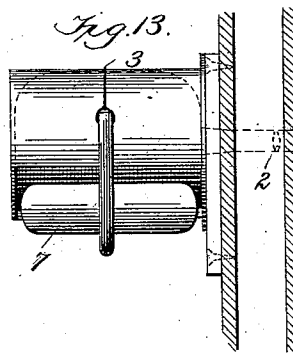
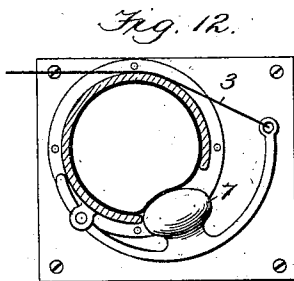
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4 Sheets—Sheet 4.

J. S. A. BAKER.
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Patented Aug. 6, 1895.



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UNITED STATES PATENT OFFICE

JOSEPH S. A. BAKER, OF WASHINGTON, DISTRICT OF COLUMBIA.

CAR-SIGNAL.

SPECIFICATION forming part of Letters Patent No. 543,955, dated August 6, 1895.

Application filed November 6, 1894. Serial No. 528,042. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH S. A. BAKER, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Car-Signals; and I do hereby 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 use the same.

My invention relates to improvements in car-signals.

With modern rapid transit it is troublesome and, indeed, dangerous for passengers to rise from their seats to reach a signal-rope or to attract the attention of the conductor while the cars are in motion.

My object is to provide means for conveniently and instantly sounding an alarm without the necessity of stretching or turning the body or of rising from the seat.

To this end my invention consists essentially in the combination, in a car or vehicle, of a seat, a sound-signal device, and connections leading from the seat to the signal device for operating the same.

The invention also consists in certain other combinations, hereinafter particularly described and claimed.

In the drawings, Figure 1 is an elevation showing the front edge of a car-seat as arranged in a closed car with my improvements connected therewith. Figs. 2 and 3 are sections of a different character of seats. Fig. 4 is an edge view of the seat of an open or summer car. Fig. 5 is also an edge view of the seat of an open car, showing a wire or cord pull. Fig. 6 is a bottom view of Fig. 5. Fig. 7 is an edge view of the same as applied to a closed car. Fig. 8 is a perspective of a car-seat having a swinging or flexible part or flap for opening and closing an electrical circuit. Fig. 9 is a bottom or back view of the flaps and their attachments. Figs. 10 and 11 are cross-sections showing the seat and flaps. Figs. 12 and 13 are sections and elevations, respectively, showing mechanical means for compressing an air tube or bulb; and Fig. 14 is a modified form of air-compressor. Figs. 15 and 16 are front and side views of a whistle having its air-compressor operated by an electromagnet.

A is a car-seat of ordinary or suitable construction. Along the edge of the seat I ar-

range means through which a passenger may sound an alarm at the side or end of a car. In Figs. 1, 2, 3, and 4 the means illustrated is a compressible tube 1 of rubber or other suitable fabric, which serves as a means of confining and expelling air for sounding a whistle 2, arranged in the end wall of the car, as shown in Fig. 1, or in the ends of the tube, as seen in Fig. 4. The tube is partially surrounded or inclosed in a socket, as shown, to prevent accidental compression. In Figs. 5, 6, and 7 the means illustrated is a cord or wire 3, arranged in loops or pulleys and connected at one end with a bell 4, as shown in Fig. 7, or with an air-compressor, as shown in Figs. 12, 13, and 14.

Instead of having the bell-cords 3 mechanically connected with the signal, as above described, it may be used to close an electrical circuit, as indicated at 5 in Fig. 6, and thus sound an electric bell in a well-known way or through a magnet operate an air-compressor, as shown in Figs. 15 and 16.

In Figs. 8, 9, 10, and 11, I have shown a circuit-closing or contact-making flexible flap or bar 6, arranged along the front part of the seat, through which a signal may be operated electrically. A symbol of an electric bell is shown at 9, Figs. 5 and 8.

It will be observed that a passenger is enabled to sound an alarm or signal without rising or bodily moving in the seat, and without raising the arm, by simply manipulating a device arranged at or adjoining the edge of the seat. It is also obvious that the compressible tube may be arranged along the back edge of the seat, as shown at 1^a in Fig. 3, and that for summer-cars, where the seats are arranged athwart the cars, the tube may be attached to a rail along the back of the seat, as shown at 1^b, Fig. 4.

Figs. 12 and 13 show mechanical devices for compressing air in the tube or bulb, and Fig. 14 shows a cylinder in which a piston operates by gravity or by springs in one direction and by the bell-cord in the other for sounding a whistle.

Figs. 15 and 16 show an arrangement in which electromagnets 8 operate upon a plunger or air-compressor to sound a whistle.

Having described my invention, I claim as new—

1. In a vehicle the combination of a seat, a

sound signal, and continuously accessible connections arranged along the edge of the seat for operating the signal.

2. In a car or vehicle the combination of a
5 seat, a whistle an air compressor, and continuously accessible connections extending along the forward edge of the seat for operating the compressor and through it, the signal.

3. In a car or vehicle the combination of a
10 seat, an air whistle and a compressible air tube communicating with the whistle arranged in a socket along the edge of the seat.

4. In a car or vehicle the combination of a whistle, an air compressor, an electromagnet arranged to operate the air compressor, an
15 electric circuit and means arranged along the seat for opening and closing the circuit, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH S. A. BAKER.

Witnesses:

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MARTHA E. JONES.