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W.B. HATCH.  
**CAR SEAT.**

PATENTED OCT 18 1870

Fig. 1.

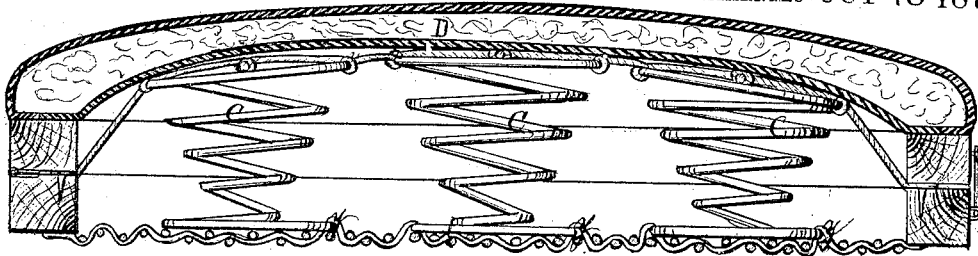
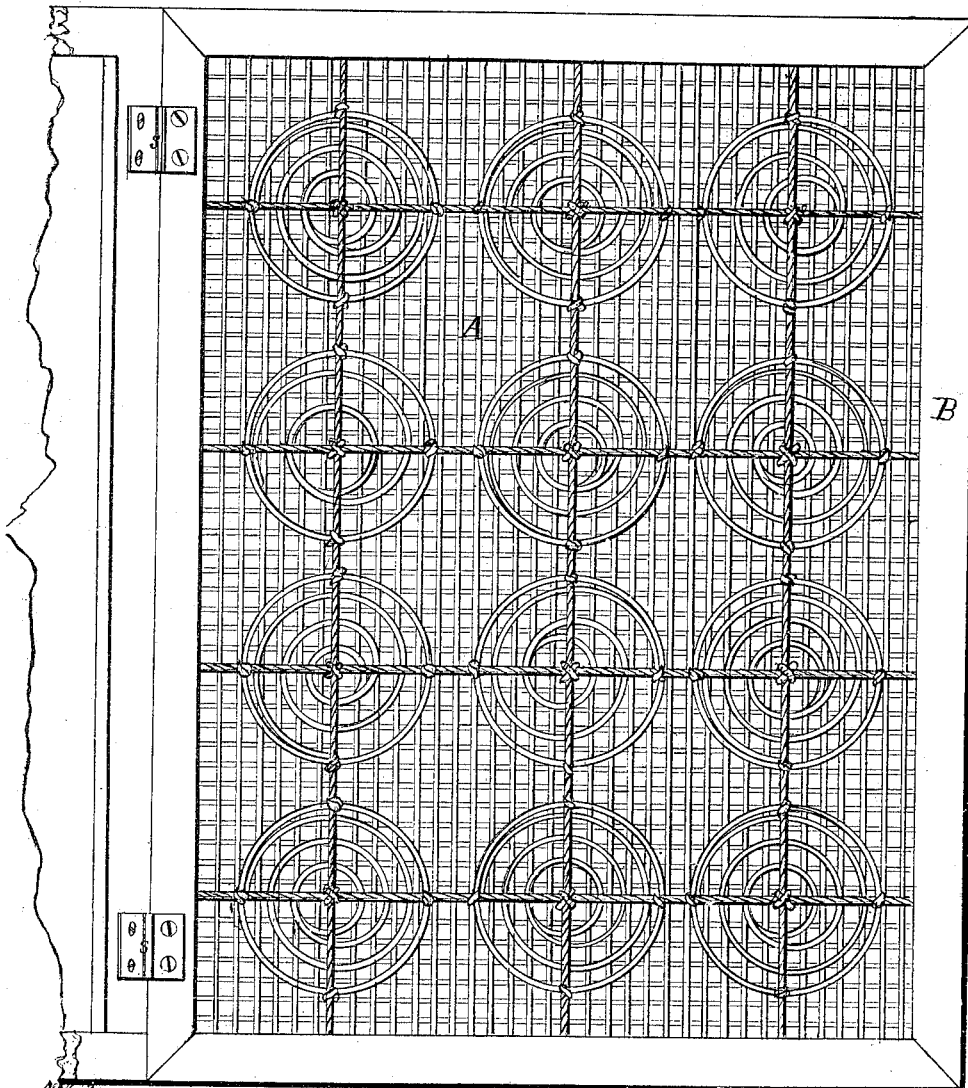


Fig. 2.



Witnesses.

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# UNITED STATES PATENT OFFICE.

WILLIAM B. HATCH, OF ELMIRA, NEW YORK.

## IMPROVEMENT IN SPRING-CUSHIONS FOR CAR-SEATS.

Specification forming part of Letters Patent No. **108,477**, dated October 18, 1870.

### *To all whom it may concern:*

Be it known that I, WILLIAM B. HATCH, of the city of Elmira, in the county of Chemung and State of New York, have invented a new and valuable Improvement in Car-Seats; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a cross-section of my invention. Fig. 2 is a plan view of the same.

My invention relates to car-seats; and consists in a novel arrangement of devices intended to serve as a valuable improvement in the manufacture of seats for railway-cars.

A of the drawing represents the base or bed of my car-seat. It consists of wire-cloth, woven in such manner as to afford room for dust to pass downward through its interstices, and is attached firmly to the frame B, as shown.

C represents a series of conical coiled springs, constructed in such manner that they shall respectively be enlarged both at top and bottom, the wire being extended horizontally and spirally to form the lower enlargement, as shown on Fig. 1 of the drawing. These springs

are respectively attached to the wire-cloth bed, by passing the end of the lower coil under the wires of the cloth, in the manner shown at *y* on Fig. 1, while their upper ends are all united by cords *z*, as shown on Fig. 2.

The top of the springs, united as above mentioned, form a rest for the cushion D, and the combined springs and wire-cloth serve to give an agreeable elasticity to the seat.

For the purpose of providing ready means of access to the springs, I form the frame of the seat in sections and hinge them together.

The letters *s* represent the hinges by which the two sections are united.

I claim as my invention—

In a cushion for car-seats, the wire-cloth bed A and conical spring C, having their smaller ends extended spirally and horizontally, and secured as described, said cushion being arranged in a suitable frame, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM B. HATCH.

Witnesses:

FRANK GALLAGHER,  
J. NEWTON DEXTER.