

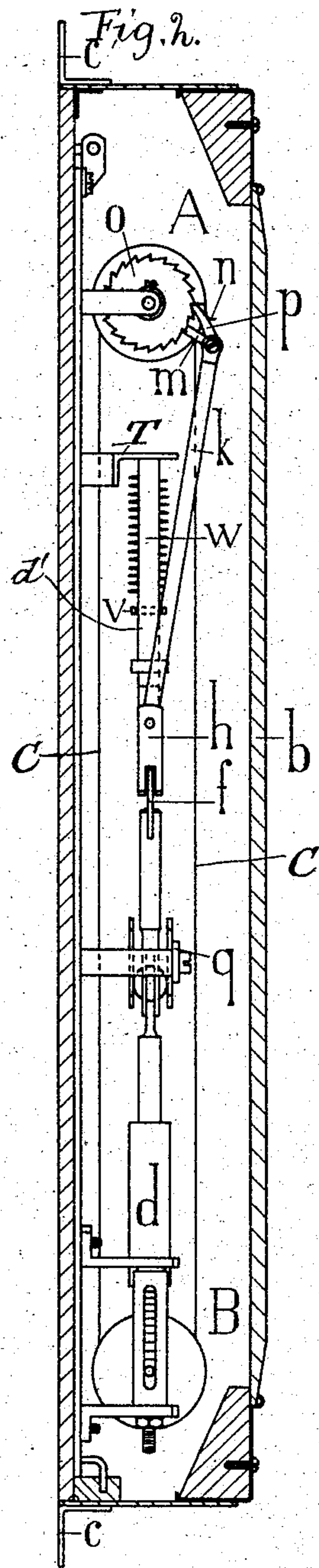
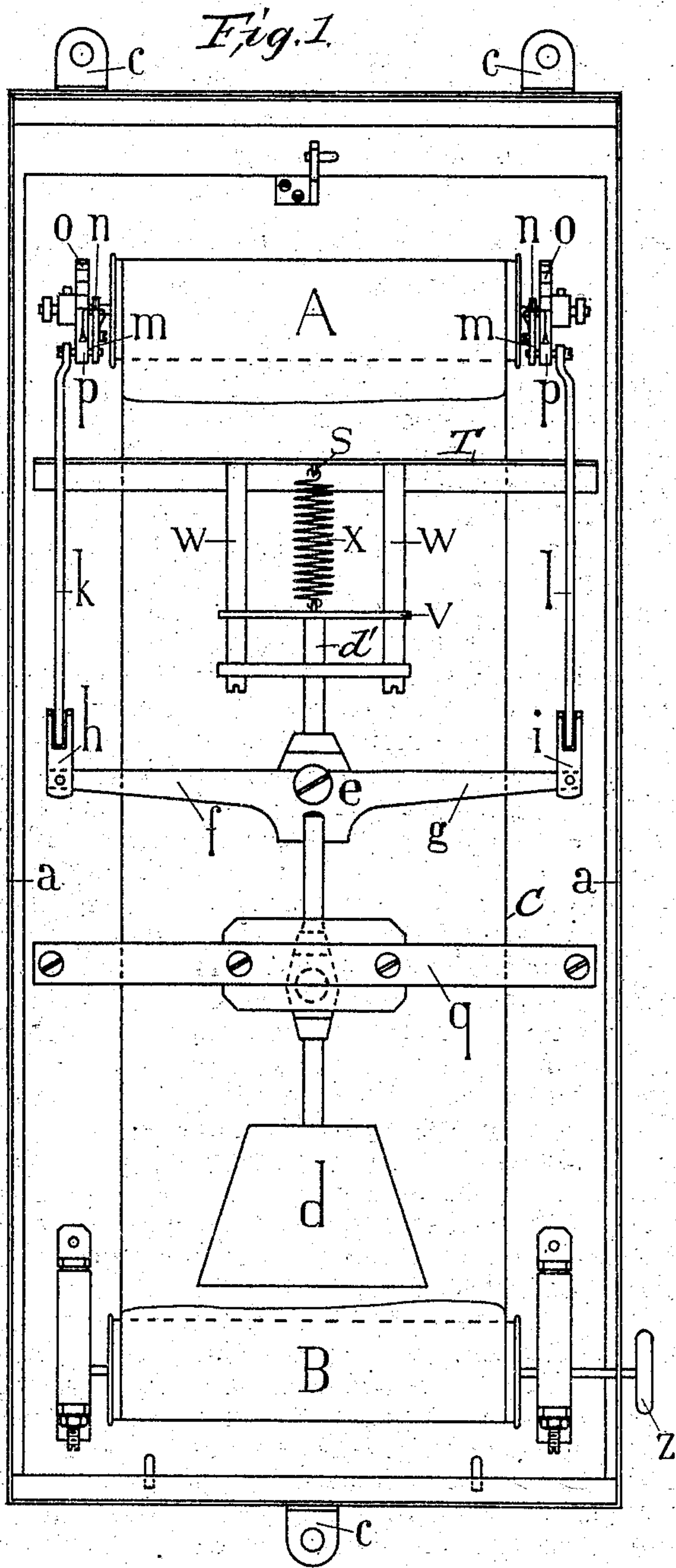
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J. B. VON SEYFFERTITZ.

AUTOMATIC ADVERTISING APPARATUS FOR RAILWAY CARRIAGES.

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WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHANN BAPTIST VON SEYFFERTITZ, OF MUNICH, GERMANY.

AUTOMATIC ADVERTISING APPARATUS FOR RAILWAY-CARRIAGES.

SPECIFICATION forming part of Letters Patent No. 781,563, dated January 31, 1905.

Application filed July 1, 1904. - Serial No. 214,969.

*To all whom it may concern:*

Be it known that I, JOHANN BAPTIST VON SEYFFERTITZ, a citizen of the Empire of Germany, residing at Munich, Germany, have invented certain new and useful Improvements in Automatic Advertising Apparatus for Railway-Carriages; 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 make and use the same.

My invention relates to advertising apparatus, and particularly to devices adapted for use in moving vehicles.

The object of my invention is to provide an advertising apparatus in which the jarring and swaying of the vehicle will serve to actuate the device and present to the view different advertising matter progressively.

In the accompanying drawings I have illustrated a preferred form of my invention, which is hereinafter more fully described.

In the drawings, Figure 1 shows the apparatus in front elevation, and Fig. 2 is a vertical section of Fig. 1.

Referring to the drawings in detail, my improved apparatus is inclosed within a case *a*, provided with a glass front *b*, so that the spectator has a view only of the advertising-sheet. If preferred, however, the entire front and sides of the case may be glazed in order to permit an examination by the curious of the working of the parts. The case is adapted to be hung upon the wall of a railway-car, steamship, street-car, omnibus, or the like by means of hooks *c*. A weight *d* is pivotally suspended in the lower central portion of the case in such a manner as to be capable of swinging similarly to the pendulum of a clock under the influence of any lateral swaying movement of the vehicle. The upper part of this "pendulum," as it may be called, is secured at the pivotal point *e* to the center of a lever having two arms *f* and *g*. The arms *f* and *g* are connected, by means of links *h* and *i*, with rods *k* and *l*, and these rods at their upper ends are connected with short levers *m*, pivotally mounted upon the axle of the roll A. Springs *n* hold in engagement with the toothed wheels *o*, the pawls *p* carried by the pins connecting

the levers *m* with the rods *k* and *l*. Cross-pieces *q*, connected with the side walls of the case, pass upon either side of the pendulum and limit the extent of its lateral movement. The pendulum is suspended by a coil-spring *X* from a hook *S*, mounted in a cross-piece *T*, fixed to the case. Depending from the cross-piece *T* are two guides *W*, between which is mounted a cross-head *V*, carried by the upper end *d'* of the pendulum and serving to guide the pendulum in its vertical movement and prevent lateral movement of the portion *d'*. As the pendulum and weight is supported by the spring *X*, it oscillates vertically under the jars incident to the travel of the vehicle over rail-joints and other uneven places. By the rolls *A* and *B*, arranged, respectively, in the upper and lower portions of the case, is carried an endless paper strip *C*, upon which the desired advertising matter is written, printed, or pictured. The upper roll *A* is fixed to the same axle as the toothed wheels *o*, which axle is mounted in brackets in the upper portion of the case. The lower roll *B* is mounted in a spring-bearing in the lower portion of the case and under the tension of the spring serves to keep the paper strip taut. A prolongation of the axle of the lower roll extends beyond the sides of the case and is provided with a hand-wheel *Z*.

The operation of the device is as follows: The lateral swaying movement of the vehicle will cause the pendulum to swing to the right or left, resulting in an alternate downward and upward movement of the two arms *f* and *g*. As the pendulum swings to the left the arm *f* will ascend with the rod *k* and by means of the pawl *p* impart to the toothed wheel *o* and the roll *A* a movement to the extent of one or more teeth, while at the same time the opposite arm *g* will descend with the rod *l* and its pawl *p* will engage another tooth lower down upon the periphery of the wheel in readiness for the next upward movement. In this way the swaying movement of the vehicle will be transmitted and will result in a progressive rotary movement applied alternately to the two ends of the roll *A*, thus feeding the endless paper strip over the two rolls and successively exposing to view the adver-



tising matter contained thereon. The vertical jarring movement of the vehicle will cause the pendulum *d* to oscillate vertically under the influence of the balancing spring-support  
 5 *X* and in doing so will move both arms *f* and *g* of the lever simultaneously upward and downward, thereby imparting rotary movement simultaneously by means of the rods *k* and *l* to both ends of the roll *A*, the result  
 10 being the same as in the former case.

By reason of mounting the lower roll *B* in spring-bearings, as stated, it is possible to remove the endless paper strip *C* from the rolls and to replace the same by a new strip when  
 15 desired, the cross-pieces *q* and *T* having been first lifted out of the way. The hand-wheel *Z* affords a means by which the rolls may be rotated and a progressive movement of the advertising matter obtained when the vehicle  
 20 is at rest.

While I have described my invention as utilized for advertising purposes, it is obvious that it may be adapted to many other uses, and I do not, therefore, desire to be limited in  
 25 any manner to the particular application of the same.

What I claim, and desire to secure by Letters Patent of the United States, is—

30 1. In an apparatus of the character described, the combination, with a vehicle, of a roll, an advertising-strip mounted thereon, a pendulum, and a connection between each side of the pendulum and the roll whereby the vibration of the vehicle will rotate the roll.

35 2. In an apparatus of the character described, the combination, with a vehicle, of a roll, an endless advertising-strip mounted thereon, a pendulum supported adjacent to the roll, arms carried by and extending on each  
 40 side of the pendulum, and a ratchet-and-pawl connection between the ends of the arms and the roll whereby the vibration of the vehicle will rotate the roll.

45 3. In an apparatus of the character described, the combination, with a vehicle, of a plurality of rolls mounted thereon, an endless advertising-strip mounted upon the rolls, a pendulum supported adjacent to the rolls, arms carried by and extending on each side of  
 50 the pendulum, links carried by the arms, other arms loosely mounted upon the axle of the roll, rods connecting the last-named arms and

the links, a toothed wheel carried by the roll, and a pawl carried by the rod, whereby vibration of the vehicle will serve to rotate  
 55 one of the rolls.

4. In an apparatus of the character described, the combination, with a vehicle, of a plurality of rolls mounted therein, an endless advertising-strip carried by the rolls, a spring  
 60 mounted on a fixed support adjacent to the rolls, a pendulous weight suspended from the spring, arms carried by and extending on each side of the weight, and a ratchet-and-pawl connection between the arms and one of  
 65 the rolls whereby both the lateral and vertical vibration of the vehicle will rotate the roll.

5. In an apparatus of the character described, the combination, with a vehicle, of a plurality of rolls mounted therein, an endless  
 70 advertising-strip carried by the rolls, a spring mounted upon a fixed support adjacent to the rolls, a pendulum supported by the spring, arms carried by the pendulum, rods connected with the arms, and a ratchet-and-pawl con-  
 75 nection between the rods and one of the rolls whereby the vibration of the vehicle will serve to rotate one of the rolls.

6. In an apparatus of the character described, the combination, with a vehicle, of a  
 80 plurality of rolls mounted therein, an endless advertising-strip carried by the rolls, a spring carried by a suitable support adjacent to the rolls, a pendulum supported by the spring and provided with a cross-head, vertical  
 85 guides for the cross-head, cross-pieces arranged to limit the lateral play of the pendulum, arms carried by the pendulum and extending laterally therefrom, links carried by the ends of the arms, rods connected with the  
 90 links, a ratchet-and-pawl connection between the rods and the ends of one of the rolls, a spring-bearing for the second roll, and a hand-wheel connected with the axle of the second roll, whereby both lateral and vertical vibra-  
 95 tion of the vehicle will serve to rotate the rolls and whereby the rolls may be rotated independently of the vibration.

In testimony whereof I hereunto affix my signature in the presence of two witnesses. 100

JOHANN BAPTIST VON SEIFFERTITZ.

Witnesses:

FELIX KISDENAUER,  
 JOSEF SEXINGER.