



# UNITED STATES PATENT OFFICE.

PAUL H. HILLARD, OF MIDDLE HADDAM, CONNECTICUT.

## IMPROVEMENT IN BELL-TOYS.

Specification forming part of Letters Patent No. 201,180, dated March 12, 1878; application filed August 30, 1877.

*To all whom it may concern:*

Be it known that I, PAUL H. HILLARD, of Middle Haddam, in the county of Middlesex and State of Connecticut, have invented a new Improvement in Mechanical Toys; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent in—

Figure 1, a side view, and in Fig. 2, a longitudinal section, showing the connection between the bell and the crank.

This invention relates to an improvement in that class of toys which, in operation, shows a moving figure, the special object in this improvement being to show a figure as in the act of ringing a bell; and the invention consists principally in a carriage having a bell hung thereon, and caused to vibrate by connection within the bell with the running gear, combined with a figure connected to the bell, so that the movement of figure and bell correspond, giving to the figure the appearance of being the power which swings the bell, as more fully hereinafter described.

A represents the carriage-body or platform; B, the forward wheels, and C the rear wheel or wheels, the wheels revolving according as the carriage is moved.

On the body a bell, D, is hung upon pivots *a* at each side, and so as to swing on said pivots forward and back. Inside the bell an arm, *b*, extends down, and from this a connecting-rod, *d*, extends to a crank, *e*, on the wheel C; hence as the carriage moves the crank will,

through the arm *b*, impart a swinging or vibratory motion to the bell.

On the carriage in rear of the bell a figure is arranged, composed of the body D' jointed to the legs, as at *f*, and an arm, E, jointed at the shoulder. From the hand a connection, *h*, is made to the bell; hence the vibration of the bell, imparted as aforesaid, will impart a corresponding vibration to the figure, giving to the said figure the appearance of being the power that swings the bell.

Attached to the bell is a staff, *n*, supporting a flag, *m*, so that the staff vibrates with the bell, constantly waving the flag.

I do not wish to be understood as broadly claiming a toy having a figure and bell arranged thereon, combined with the power, so that the figure appears to be swinging the bell, as such I am aware is not new. Neither do I broadly claim a mechanical toy having a flag and staff arranged thereon.

I claim—

1. The combination, in a mechanical toy, of the bell D, mounted on pivots on a carriage, combined with an arm, *b*, extending down inside of the bell, the crank *e* on the wheel, and a connecting-rod, *d*, between said crank and arm *b*, substantially as described.

2. In a mechanical toy, the combination of a swinging bell mounted on a carriage, operated from the running gear, with a staff and flag, in connection with said bell, substantially as described.

PAUL H. HILLARD.

Witnesses:

L. D. BUTLER,  
JOSIAH ACKLEY.