No. 639,810. Patented Dec. 26, 1899.

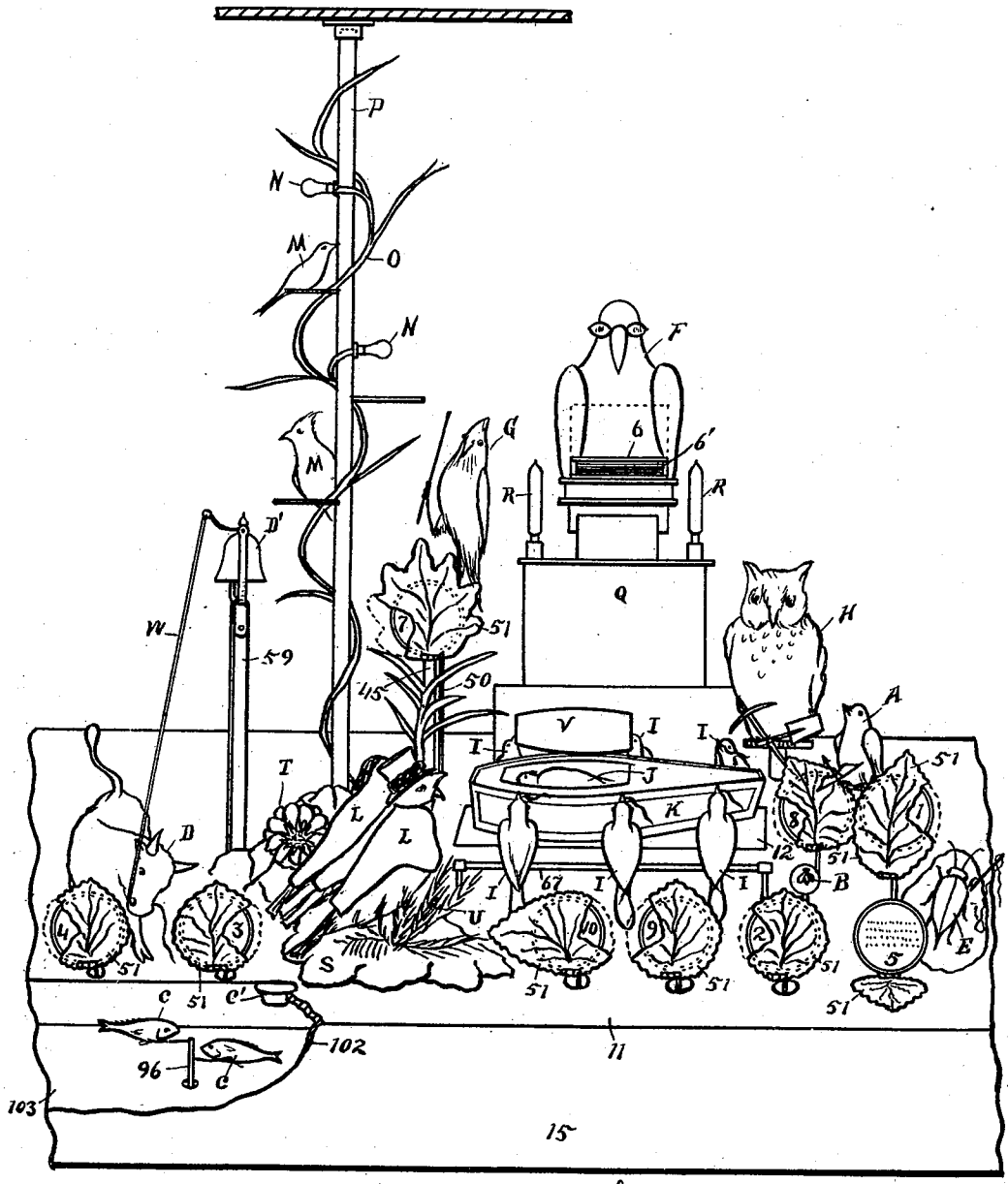
J. E. GROSJEAN.

SPECTACULAR MACHINE.

(Application filed Apr. 15, 1899.)

(No Model.) 3 Sheets—Sheet 1.

Fig. 1.



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(No Model.) 3 Sheets—Sheet 2.

Fig. 2.

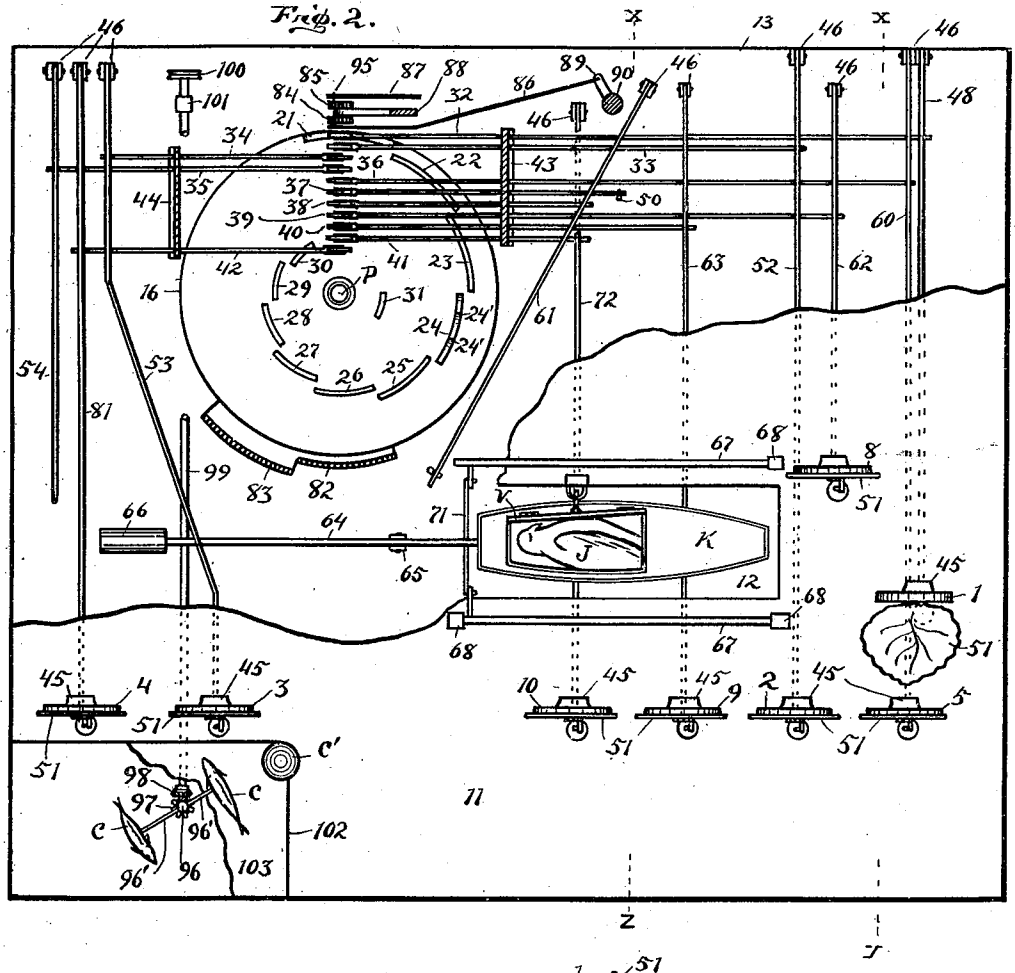
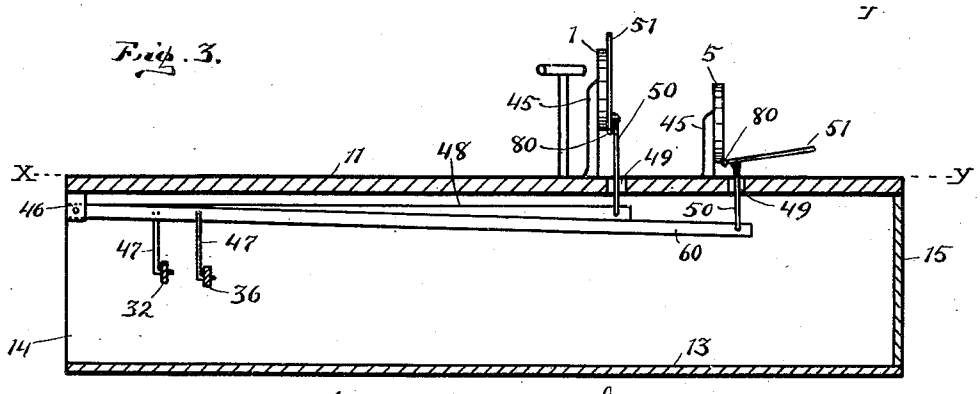


Fig. 3.



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(No Model.) 3 Sheets—Sheet 3.

Fig. 4.

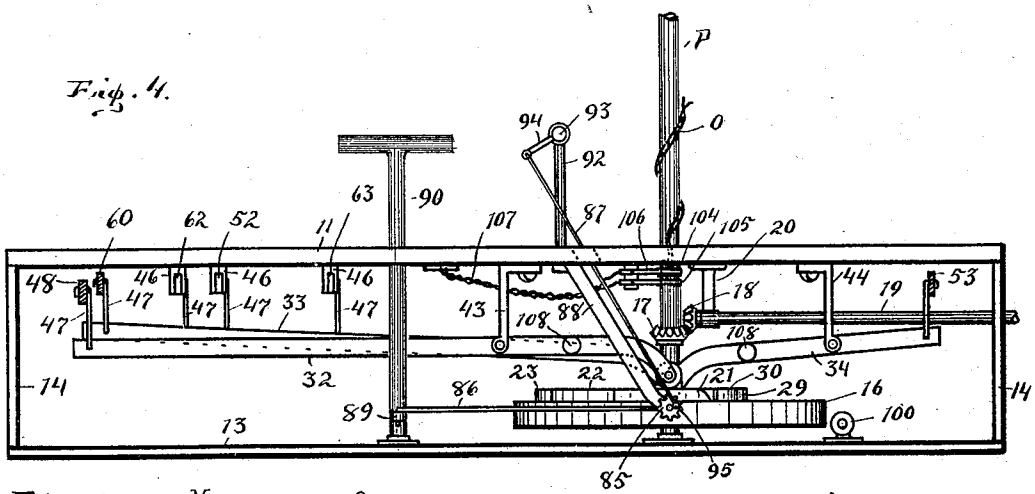


Fig. 5.

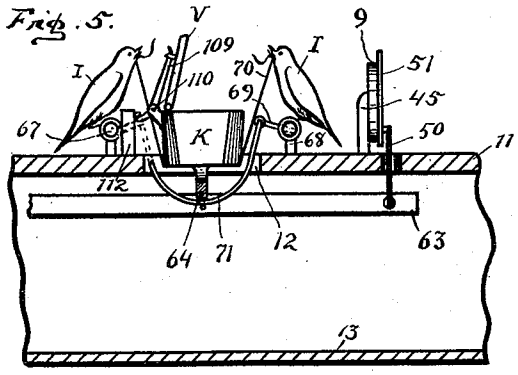


Fig. 6.

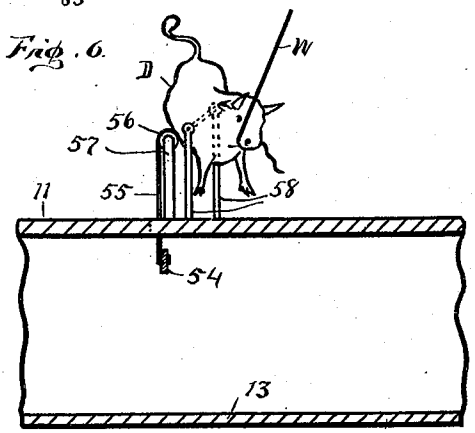
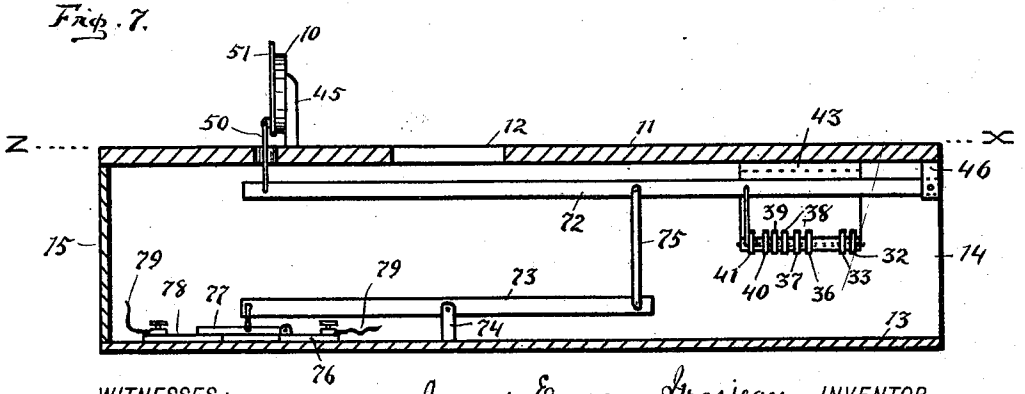


Fig. 7.



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UNITED STATES PATENT OFFICE.

JAMES EUGENE GROSJEAN, OF LIMA, OHIO.

SPECTACULAR MACHINE.

SPECIFICATION forming part of Letters Patent No. 639,810, dated December 26, 1899.

Application filed April 15, 1899. Serial No. 713,152. (No model.)

To all whom it may concern:

Be it known that I, JAMES EUGENE GROSJEAN, a citizen of the United States, residing at Lima, in the county of Allen and State of Ohio, have invented certain new and useful Improvements in Spectacular Machines; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in spectacular machines wherein a number of configurations are arranged upon a platform in juxtaposition with a series of placards having printed or marked thereupon verses or stanzas of poetry or other matter relevant to said configurations, the said placards having removable covers for obscuring the same from view and wherein suitable mechanism is arranged in conjunction with said configurations and covers for actuating the same, as hereinafter described.

The objects of my improvements are, first, to provide a mechanical means of illustrating a poem or play, and, second, to provide means for exposing a number of placards severally and in succession, respectively, the said placards having printed or marked thereupon the verses or stanzas of poetry or other matter relevant to the respective configurations arranged in juxtaposition therewith.

I accomplish my objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation showing the relative position of the several configurations and placards. Fig. 2 is a plan showing a platform, partly cut away to disclose the actuating-levers, &c. Fig. 3 is a vertical section on the line $x\ y$ of Fig. 2, showing the connection of the levers with the covers. Fig. 4 is a rear elevation showing the relative arrangement of the pawl-levers and the master-wheel. Fig. 5 is a vertical section on a line parallel with the line $x\ z$ of Fig. 2, showing one of the levers in connection with part of the moving apparatus. Fig. 6 is a vertical section on a line at right angles with that of Fig. 5, showing one of the levers in connection with one of the moving figures; and Fig. 7 is a vertical section on the line $x\ z$ of Fig. 2, showing the electrical circuit-breaking mechanism.

Similar numerals and letters of reference indicate corresponding parts throughout the several views.

The construction shown in this invention is designed to illustrate a particular poem or play, well known as "Who Killed Cock Robin," and the characters participating in the play are reproduced by mounted specimens A, B, C, &c., of the particular characters mentioned in the play or by suitable configurations made in representation of such characters, and the verses or stanzas 1, 2, 3, &c., relevant to the respective characters are brought to view at the time of the performance of the characters, respectively, thus:

The first verse of the poem is illustrated by a mounted specimen of the sparrow A holding a miniature bow and arrow, in close proximity to which placard 1 is exposed momentarily, thus displaying the following verse:

"Who killed Cock Robin?"
"I," said the Sparrow,
"With my bow and arrow,
I killed Cock Robin."

The second stanza or verse is illustrated by a mounted specimen of the fly B, in close proximity to which is momentarily exposed the placard 2, having printed thereupon the following:

"Who saw him die?"
"I," said the Fly,
"With my little eye,
And I saw him die."

The third verse or stanza is illustrated by one or more specimens or miniature configurations of fish C, which are provided with mechanism for continuous movement. A dish C′ is arranged in close proximity thereto. The said dish may be given an appearance realistic to the following verse by partially filling the same with blood-colored substance. The placard 3 momentarily exposes the following:

"Who caught his blood?"
"I," said the Fish,
"In my little dish,
And I caught his blood."

The fourth verse or stanza is illustrated by a miniature configuration of a bull D, having

a cord connection W with a mounted bell D', which is afforded momentary movement by a mechanism hereinbefore described, in close proximity to which is simultaneously exposed the placard 4, having the following printed thereupon:

"And who'll toll the bell?"
"I," said the Bull,
"Because I can pull;
And so, Cock Robin, farewell."

The fifth verse or stanza is illustrated by a mounted specimen of the beetle E, together with a needle, thread, and a piece of fabric, in close proximity to which placard 5 is momentarily exposed, having printed thereupon the following:

"Who made his shroud?"
"I," said the Beetle,
"With my little needle,
And I made his shroud."

The sixth verse or stanza is illustrated by a specimen of the rook F, mounted upon an oscillating perch 90, situated near a miniature pulpit Q. On the pulpit is mounted a book 6', the top cover 6 of which is arranged to open simultaneously with the momentary oscillations of said perch. On the inside of the cover is displayed the following:

"Who'll preach the funeral?"
"I," said the Rook,
"I'll read from my little book
Ashes to ashes and dust to dust."

The seventh verse or stanza is illustrated by a specimen of the thrush G holding a miniature baton 112 and mounted upon a mechanically-actuated perch 93, as hereinafter described. The placard 7 is arranged conveniently near the perch and is exposed simultaneously with the movement of said perch, displaying the following:

"Who'll sing a psalm?"
"I," said the Thrush
As she sat in the bush,
"And I'll sing a psalm."

The eighth verse or stanza is illustrated by a mounted specimen of the owl H holding a miniature pick and trowel, in close proximity to which is momentarily exposed the placard 8, upon which is printed the following:

"Who'll dig his grave?"
"I," said the Owl,
"With my spade and trowel,
And I'll dig his grave."

The ninth verse or stanza is illustrated by a specimen of the robin J, arrayed in burial attire and lying in a miniature coffin K. The coffin is supported by a lever mechanism over a rectangular opening or grave 12 in the platform 11, in which it is vertically movable. On either side of the grave are arranged several specimens of the wren I I I, &c., mounted upon rocking perches 67. Ribbons 70 are passed under the coffin and upward to the mouths of the wrens. When the coffin K is lowered, the specimens I I I are tilted toward the grave, (by the mechanism hereinafter described,) simultaneously with which placard 9 is momentarily exposed, upon which is printed the following:

"Who'll bear the pall?"
"We," said the Wren,
Both the cock and the hen,
"And we'll bear the pall."

The tenth verse or stanza is illustrated by a continuously-revolving perch P, mounted upon which are specimens of various fowl M, artistic shrubbery, and a number of miniature electrical lamps N, which illuminate the scene. Placard 10 is conveniently arranged in the foreground and is momentarily exposed by the hereinafter-mentioned mechanism, which also breaks the electrical circuit ard thereby extinguishes the lights. On placard 10 is printed the following:

"All the birds in the air
Fell to sighing and sobbing
When they heard the bell toll
For poor Cock Robin.
Amen."

The realistic effect of the scene is very much enhanced by a small mound of earth-colored substance S, set on the platform near the grave, upon which are mounted a number of specimens L L of the robin family arrayed in mourning attire. A display of artificial flowers T and shrubbery U may also be placed about the mound.

The mechanism for actuating the several characters and movable parts is arranged conveniently within a hollow rectangular base consisting of a bottom board 13, end boards 14, front 15, and platform 11. Within the said base is mounted a horizontal disk or master-wheel 16 and is rigidly secured to a vertical shaft or perch P and is adapted to rotate therewith. A gear-wheel 17 is fixed upon said perch above the master-wheel and engages with a driving-pinion 18, which is secured upon the end of the driving-shaft 19. The said driving-shaft is mounted in a hanger 20 and passes through a suitable opening in the end board 14 and is adapted to be driven by any suitable source of power, and thus give motion to the said perch and master-wheel.

Upon the upper side of the master-wheel 16 are arranged a series of cams 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31, each of said cams ranging in different radii from the center of the master-wheel. The said cams project above the surface of the said master-wheel, and are adapted to severally engage the pawl-levers 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, and 42 in succession, respectively. The said pawl-levers are pivotally mounted in groups in the hangers 43 and 44, respectively, which depend from the under side of

the platform 11. The inner ends of said pawl-levers are downturned and may be provided with friction-wheels to prevent wear. When the master-wheel is revolved, the said cams successively engage the respective levers and raise the same from their normal positions, thus lowering their respective opposite ends.

To the outer end of the pawl-lever 32 is coupled, by means of a rod 47, a lever 48, which is pivoted to the hanger 46 and ranges beneath the platform 11. A rod 50 connects the end of the lever 48 with the hinged cover 51 and is adapted to actuate said cover when moved downward, thus exposing the placard 1, which is suitably mounted upon a standard 45 above the platform 11.

To the outer end of pawl-lever 33 is coupled, by means of a rod 47, a lever 52, which is pivoted to a hanger 46 and ranges beneath the platform 11 and is coupled to the cover 51, which is hinged to the placard 2 in a manner similar to that above described. The pawl-lever 34 is similarly connected with a lever 53, which in turn has a connection with the cover 51, which is hinged to the placard 3.

The pawl-lever 35 has a connection with the lever 54 and is engaged by the cam 24. The said cam has a number of indentations 24′, thus giving the said pawl-lever a number of vertical movements when engaged, and thus actuating the lever 54 accordingly. A cord 55 is secured to the end of the lever 54 and passes upward through a suitable opening in the platform 11 and over a pulley 56, which is mounted upon a standard 57. A miniature configuration of a bull D is pivotally mounted between the standards 58 and is attached to the end of the cord 55. Thus when the lever 54 is actuated the said bull is actuated accordingly. A bell D′ is pivotally mounted upon a post 59, and a cord W is connected with the bell and bull. Thus when the bull is actuated by the mechanism described the bell is actuated accordingly.

The pawl-lever 36 has a connection with the lever 60, which is pivoted to a hanger 46, and has a connection with the cover 51, which is hinged to the placard 5 and is adapted to actuate the same.

The pawl-lever 37 has a rod connection 50 with the cover 6 of the book 6′ and is adapted to actuate said cover.

The pawl-lever 38 has a connection with the lever 61, which is pivoted to a hanger 46, and has a connection with the cover 51, which is hinged to the placard 7 and is adapted to actuate the same.

The pawl-lever 39 has a connection with the lever 62, which is pivoted to a hanger 46, and has a connection with the cover 51, which is hinged to the placard 8 and is adapted to actuate the same.

The pawl-lever 40 has a connection with the lever 63, which is pivoted to a hanger 46, and has a connection with the cover 51, which is hinged to the placard 9 and is adapted to actuate the same. The said lever 63 has also a connection with the under side of the coffin K and is adapted to raise and lower the same. The said coffin is mounted on the end of a balance-lever 64, which is mounted in the hanger 65. A weight 66 is mounted on the opposite end of the lever 64 for the purpose of counterbalancing the weight of the coffin. Rocking perches 67 are mounted in suitable hangers 68 on either side of the grave 12. From each of the perches 67 extend the arms 69, the said arms being connected by a U-shaped wire 71, which passes downward from the ends of said arms and under the balance-lever 64, with which it has a connection. Thus when the said balance-lever is tilted downward the U-shaped wire 71 is carried with it, and thereby actuates the perches 67. A number of wrens I I I are rigidly mounted upon the perches 67 and hold in their mouths the ribbons 70, which pass downward and under the coffin, thus giving the appearance of the straps commonly used in lowering coffins.

The pawl-lever 41 has a connection with the lever 72, which is pivoted to the hanger 46, and has a connection with the cover 51, which is hinged to the placard 10 and is adapted to actuate the same. The said lever 72 is connected, by means of a rod 75, to the end of the lever 73, which is mounted upon a suitable standard 74, extending from the base 13. The opposite end of the lever 73 has a connection with the plate 77, which is hinged to the plate 76 at one end and rests upon the plate 78 at the other, thus joining in electrical circuit the plates 76 and 78. The circuit-wires 79 are connected with the said plates 76 and 78, respectively. When the lever 73 is actuated, the plate 77 is raised from contact with plate 78, thus breaking the electrical circuit.

The pawl-lever 42 is engaged by the cam 31 and has a connection with the lever 81, which is pivoted to a hanger 46, and has a connection with the cover 51 on the placard 4 and is adapted to actuate the same. The cams 31 and 24 are arranged in position relative to the respective pawl-levers 42 and 35, so that when the master-wheel 16 is revolved said pawl-levers are actuated simultaneously.

Each of the several covers 51 is secured to the respective placards 1, 2, 3, &c., by means of the hinges 80, so that when the rods 50 are drawn downward the covers are swung open, thereby exposing the placards respectively.

A segmental rack 82 extends from the periphery of the master-wheel 16, and is adapted to engage and drive the pinion 84. The said pinion is rotatively mounted at the end of the hanger 88, which depends from the under side of the platform 11. A connecting-rod 86 is loosely pivoted to the said pinion 84 a short distance from its center and is coupled to the arm 89, which extends from the side of the vertical perch 90. The said perch extends upward through the platform 11 and forms a suitable mount for the rook F. Thus when said pinion is driven an oscillating

motion is transmitted, by means of the rod 86, to the perch 90, giving an animated appearance to the rook mounted thereupon. The said rack 82 and the cam 26 are arranged in position relative to the pinion 84 and pawl-lever 37, so that when the master-wheel 16 is revolved the said pinion and pawl-lever are engaged simultaneously.

The segmental rack 83 extends from the periphery of the master-wheel 16 in a radius farther from the center than that of the rack 82 and is adapted to engage pinion 85, which is rotatively mounted at the end of the hanger 88. The connecting-rod 87 is loosely pivoted to the said pinion 85 a short distance from its center, as shown at 95, and passes upward through a suitable opening in the platform 11 and is coupled with the arm 94, which extends from the horizontal perch 93. The said perch 93 is loosely mounted upon a standard 92, which projects above the platform 11. When the pinion 85 is driven, said perch is oscillated by means of its connection with the rod 87. The rack 83 and the cam 27 are arranged in position relative to the pinion 85 and pawl-lever 38, so that when the master-wheel 16 is revolved said pinion and pawl-lever are engaged simultaneously.

The fish C are mounted upon the ends of radial arms 96', respectively, which project from a vertical revolving shaft 96. A pinion 97 is rigidly fixed upon said shaft and is engaged by a pinion 98, which is rigidly fixed upon the end of the driving-shaft 99. The opposite end of the said driving-shaft is mounted in a hanger 101 and is provided with a pulley 100, by which said driving-shaft may be connected with and driven by any suitable source of power, thus giving a rotary motion to the vertical shaft 96, and thereby moving the fish about in a circle. The platform 11 is cut away, as shown at 102, to give the appearance of a pool, and a lower platform 103 is arranged in a plane beneath the fish to obscure the mechanism from view. The scene is further enhanced by miniature electrical lamps R, placed upon the pulpit Q, which, together with the lamps N on the revolving perch, are placed in a common electrical circuit. The wires O of the circuit may be arranged about the perch P in such a way as to give the appearance of shrubbery or a vine. The lower ends of the wires O are connected with the respective metallic bands 104 and 105, which are secured to the perch P below the platform 11, where they are in constant contact with the brushes 106, respectively. The wires 107 lead to and are connected with said brushes. The electrical circuit is carried from a suitable source of electrical energy to the lamps distributed about the scene.

In the operation suitable motive power is applied to the driving-shaft 19, which slowly revolves the perch P and master-wheel 16, and as the cam 21 engages the pawl-lever 32 the same is raised at its point of contact, and consequently the opposite end of said pawl-lever is moved downward, thereby actuating the lever 48, which in turn exposes to the view of the spectator the first verse or stanza, as hereinbefore mentioned, and as the said cam passes from under the pawl-lever the same gravitates to its former position by reason of a weight 108, thus closing the cover 51. At this instant the cam 22 engages the pawl-lever 33 and likewise exposing placard 2, which is closed when the said cam becomes disengaged from said pawl-lever, as in the former instance. At this instant the cam 23 engages the pawl-lever 34 and likewise exposing placard 3, which is again closed when said cam becomes disengaged from said pawl-lever, as in the former instance, and as cam 23 is disengaged from pawl-lever 34 the cam 24 engages the pawl-lever 35, and at the same instant the cam 31 engages the pawl-lever 42, thereby actuating in unity the levers 54 and 81, which exposes the placard 4 and gives momentum to the bull D by means of their respective connections, as hereinbefore described. As the cams 24 and 31 pass from under their respective pawl-levers the cam 25 engages the pawl-lever 36, thus exposing placard 5, which returns to its normal position as the said cam passes from engagement with the pawl-lever 36, following which the cam 26 engages the pawl-lever 37, and thereby raising the cover 6 in the position shown by dotted line in Fig. 1. At this juncture the rack 82 comes into engagement with the pinion 84, which by reason of its connection with the perch 90 gives the same an oscillating motion. As the said rack and cam pass from engagement with the respective pinion and pawl-lever cam 27 engages the pawl-lever 38, and thereby exposing placard 37 by reason of its connection with the cover 51. At the same instant the rack 83 engages the pinion 85, and by reason of the connection between said pinion and perch 93 the said perch is oscillated. As the former operation is completed the cam 28 engages the pawl-lever 39, which actuates cover 51 and exposes placard 8, which is again closed as the cam passes from engagement with the said pawl-lever, following which the cam 29 engages the pawl-lever 40, which by reason of its connection with the lever 63 actuates the coffin K and cover 51 and causes placard 9 to be exposed. The lid V, which is hinged to the coffin K, is normally held open by the lever 109, which is pivotally mounted upon a bracket 110, secured to the side of the coffin. The projecting end of said lever rests against the post 112, and when the coffin is lowered the said lever 109 is disengaged from said post, thus allowing the lid to fall and close the opening in the coffin. The perches 67 are tilted toward the coffin by reason of their connections with the lever 64, which gives a life-like motion to the wrens mounted upon said perches. As the cam 29 passes from under the pawl-lever 40, the operation of the coffin and the several parts connected therewith is reversed,

thus assuming its former position. At this juncture the cam 30 engages the pawl-lever 41, which by reason of its connection with the lever 72, exposes placard 10, and the lever 73 opens the electrical circuit, thereby extinguishing the lights and signifying the end of the performance. As the master-wheel continues to revolve the performance is repeated.

Having described my invention and the manner in which the same operates, what I claim as new, and desire to secure by Letters Patent, is—

1. In a spectacular machine, a platform, a series of mounted specimens or configurations of living beings suitably mounted upon said platform; a series of placards mounted upon suitable standards and arranged respectively in juxtaposition with the said specimens or configurations, the said placards having printed thereupon verses or stanzas of poetry or other matter relevant to said specimens or configurations; a number of covers hinged upon the respective placards; and means in connection with said covers for actuating the same severally and in succession, substantially as shown and described.

2. In a spectacular machine, a number of specimens or configurations of living beings mechanically-actuated perches upon which said specimens are mounted; a number of placards suitably mounted upon the platform and arranged respectively in juxtaposition to said configurations, the said placards having printed thereupon verses of poetry or other matter relevant to the respective configurations; means for actuating said perches severally and in succession; means for actuating said covers in succession simultaneously with the movement of said perches, substantially as shown and described.

3. In a spectacular machine, a platform, a continuously-revolving perch P, extending above the platform, a number of specimens or configurations of living beings mounted upon said platform and a number of electrical lamps; the said platform having a rectangular opening representing a grave 12; a miniature coffin supported over said opening and being adapted to be lowered therein; rocking perches 67, a number of specimens of the wren mounted upon said rocking perches, arranged parallel with and on either side of the grave, and means for actuating said perches in conjunction with said coffin; a lid V hinged upon said coffin; a suitable lever for holding said lid open when said coffin is at its upper plane of movement; a miniature pulpit having a book 6′ mounted thereupon, the said book having a hinged cover; an oscillating perch 90, extending above the platform behind said pulpit and having mounted thereupon a specimen of the rook; a standard 92 extending above the platform, a loosely-mounted perch 93, supported by said standard, a specimen of the thrush mounted upon said perch holding a miniature baton; means for oscillating said perch; a miniature configuration of a bull loosely pivoted between supporting-standards, a bell mounted upon said platform, a cord connecting said bull and bell said bull having a suitable connection with a lever 64 by which the same is actuated, and a vertical revolving shaft 96, arms extending from said shaft, miniature configurations of fish mounted upon said arms and a suitable driving mechanism actuating said shaft, substantially as shown and described.

4. In a spectacular machine, a number of specimens or configurations of living beings, a platform upon which said specimens are mounted; a number of placards, having hinged covers, arranged respectively in close proximity to several configurations; a continuously-revolving master-wheel having a number of projecting cams arranged respectively in different radii from the center; a number of pawl-levers arranged above the said master-wheel and being adapted to be engaged and actuated by said cams, severally and in succession, suitable lever connections between the said pawl-levers and the hinged covers, respectively, and being adapted to actuate said covers; segmental racks 82 and 83 extending from the periphery of the said master-wheel and ranging in different radii; the pinions 84 and 85 suitably mounted and adapted to be engaged and driven by the respective racks, oscillating perches 90 and 93 and rod connections between said pinions and perches adapted to actuate the same, substantially as shown and described.

5. In a spectacular machine, a platform having an opening or grave 12; a minature coffin supported over said opening and being adapted to be lowered therein; specimens or configurations of animals, rocking perches on either side of said grave upon which said animals are rigidly mounted and means in connection with said coffin and perches for actuating the same simultaneously, substantially as and for the purposes shown and described.

6. In a spectacular machine, a platform having an opening therein; a vertically-movable miniature coffin in said opening; a lid hinged upon the top of said coffin and a post suitably mounted upon said platform and adapted to engage said lid to hold it open when said coffin is at its upper plane of movement, substantially as shown and described.

7. In a spectacular machine, a specimen or configuration of a bird, a rotating perch upon which said specimen is mounted; a representation of a book, in front of said bird; a cover hinged to said book; means for actuating said perch; and means in connection with said cover for opening the same simultaneously with movements of said perch, substantially as and for the purposes shown and described.

8. In a spectacular machine, a platform, a minature configuration of a bull movably mounted upon said platform; a bell mounted upon said platform in proximity to said bull; means for actuating said bull and a cord con-

necting said bull and bell whereby said bell is actuated simultaneously with the movement of said bull, substantially as shown and described.

9. In a spectacular machine, a platform, a number of specimens or configurations of living beings mounted upon said platform; a number of placards, having hinged covers, mounted in juxtaposition to said configurations, respectively, and having printed thereupon verses of poetry or other matter relevant to the respective configurations; and means in connection with said covers for actuating the same severally and in succession, substantially as shown and described.

10. In a spectacular machine, a platform-placards containing a series of related statements suitably expressed and mounted upon said platform, a series of figures in proximity to said placard illustrating said statements, movable covers to said placards normally obscuring said statements and means for operating said covers successively to expose said statements to view, substantially as described and set forth.

11. In a spectacular machine, a platform, a plurality of placards containing a story or legend suitably expressed, each placard containing a portion of the story or legend, a plurality of representations illustrating said story or legend also mounted upon said platform, movable covers to said placards to conceal the matter thereon, and means for actuating said covers to expose said matter to view, substantially as described.

12. In a spectacular machine, a platform, a plurality of placards containing a story or legend suitably expressed, each placard containing a portion of the story or legend, a figure fixed upon said platform, a movable figure suitably mounted upon said platform, said figures illustrating the story or legend, means for actuating the movable figure, movable covers to the placards and means to actuate said covers, and connections between the means for moving the figure and the means for moving the covers substantially as described.

13. In a spectacular machine, a platform, placards each containing a portion of a story or legend suitably expressed, a plurality of movable figures illustrating said story or legend, means for actuating said movable figures, movable covers for concealing and revealing said story or legend, and mechanism for simultaneously operating said figures and cover, substantially as shown and described.

14. In a spectacular machine, a platform, a plurality of placards containing a story or legend suitably expressed, each placard containing a portion of the story or legend, a plurality of movable figures illustrating said story or legend, also mounted upon said platform; means for actuating said movable figures, movable covers to the placard and means for actuating the movable covers, substantially as described.

15. In a spectacular machine, a platform, a plurality of placards mounted on the platform and containing a story or legend, suitably expressed, each placard containing a portion of the story or legend, a cover hinged to each placard, a plurality of movable figures illustrating said story or legend, also mounted upon the platform, a master-wheel suitably mounted and provided with cam-surfaces, levers engaging said cam-surfaces, and intermediate connections between the hinged covers and some of said levers and between the movable figure and the remainder of said levers to move the covers and actuate said figures, substantially as shown and described.

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

JAMES EUGENE GROSJEAN.

Witnesses:
WILL. H. ROUSH,
CHAS. E. ECKERT.