C. M. LONG.

WINDOW TAPPING DEVICE.

APPLICATION FILED JUNE 12, 1911.

1,018,625. Patented Feb. 27, 1912.

Fig. 1.

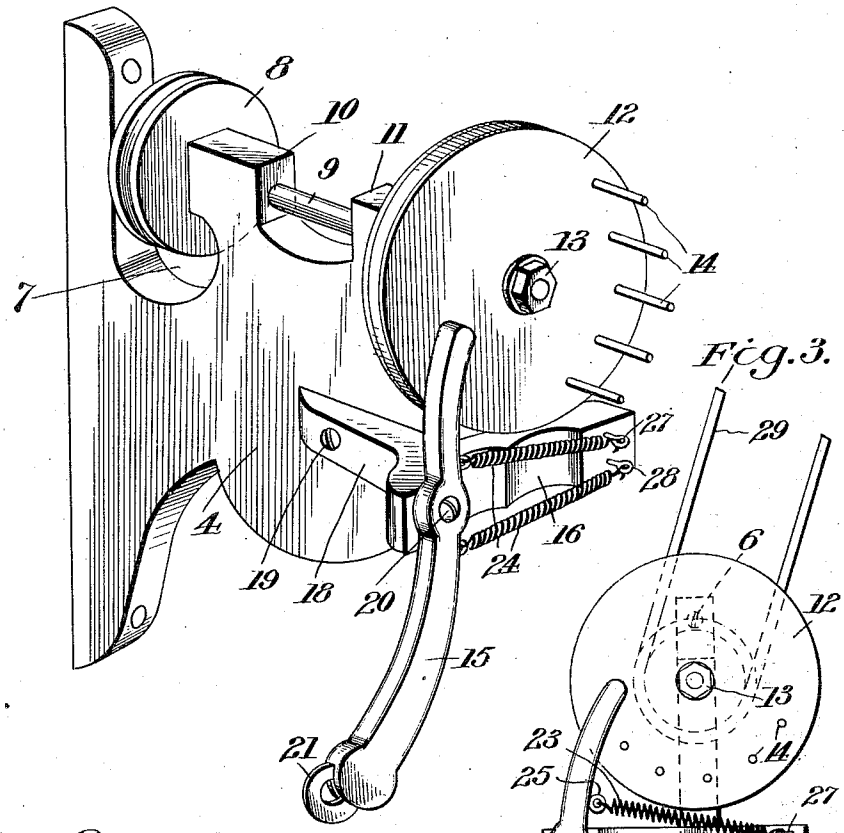


Fig. 3.

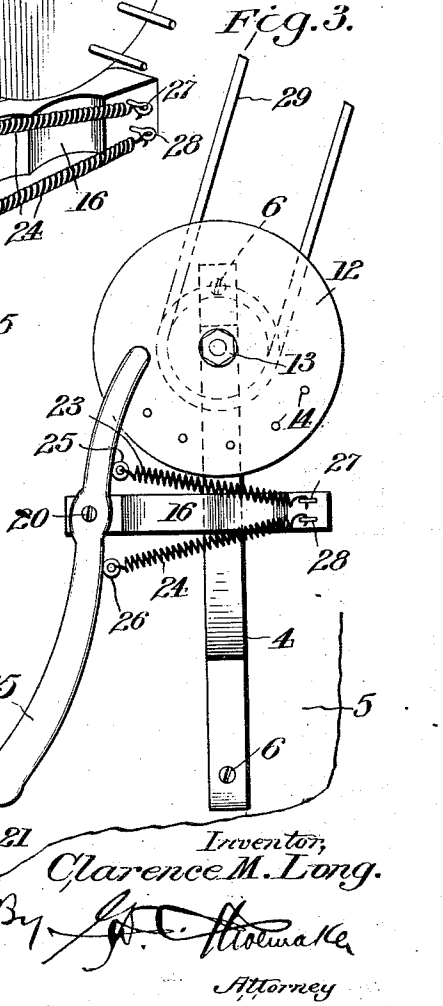
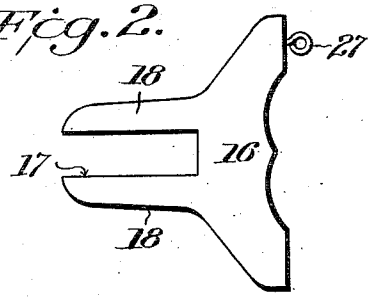


Fig. 2.



Witnesses.

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WINDOW-TAPPING DEVICE.

1,018,625. Specification of Letters Patent. Patented Feb. 27, 1912.

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To all whom it may concern:

Be it known that I, CLARENCE M. LONG, citizen of the United States, residing at Marion, in the county of Marion and State of Ohio, have invented certain new and useful Improvements in Window-Tapping Devices, of which the following is a specification.

This invention relates to window tapping devices.

One object is to provide a device that may be readily positioned in a store or other window or bulletin board for the purpose of attracting attention of pedestrians to the window in which the device is located.

Another object is to provide a device of the nature stated embodying such characteristics that the tapping will be done intermittently with one comparatively long pause between the intermittent tapping whereby the tapping will be sharp or quick with a period of silence between the tapping.

A still further object is to provide a simple, inexpensive, durable and efficient device designed particularly as an advertising novelty for the purpose of making sound on a window pane or bulletin board to attract attention of pedestrians passing the window.

It is still further designed to provide a window tapping device constructed and arranged to provide for a differential intermittent tapping on the window pane adjacent which the device is located.

With the above and other objects in view, the invention consists in the construction and novel combination of parts hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a perspective view of the device. Fig. 2 is a plan view of the tapper arm supporting bracket. Fig. 3 is a side view showing the tapper arm in engagement with a window glass.

Referring now more particularly to the accompanying drawings, the reference character 4 indicates a bracket of wood, metal or other suitable material which may be secured to the frame-work 5 of a store or other window by means of screws or other suitable fastenings 6, the upper edge of the bracket 4 being provided with a recess 7 in which rotates a pulley or other wheel 8 mounted on a shaft 9 journaled in the bearing lugs 10 and 11 formed at the upper edge of the bracket 4.

Secured to the shaft 9 on the outer end thereof is the tapper arm operating mechanism, preferably in the form of a wheel 12 which is mounted preferably between the bearing lug 11 and the nut 13 which latter is designed to prevent displacement of the wheel 12 off of the outer end of the shaft. In the embodiment shown the wheel 12 is provided with a plurality of equi-distant projections, in this instance, in the form of pins 14 arranged adjacent the periphery of the wheel and at one side only of the latter.

The tapper arm is indicated by the reference character 15 and its supporting means preferably consists of a bracket 16 which is bifurcated at 17 to provide legs 18 adapted to embrace the sides of the bracket 4 and secured to the latter by means of screws or other suitable fastenings 19, the tapper arm 15 being preferably in the form of a compound curve and pivotally mounted at 20 on the bracket 16 with its upper end arranged for engagement by the pins 14 and with its lower end preferably bifurcated to receive the window contacting member 21.

The tapper arm 15 is preferably maintained normally in such position that the window contacting member 21 will bear normally against the window pane 22, such normal positioning of the tapper arm 15 and the window contacting member 21 being accomplished through the instrumentality of any suitable means, preferably, however, by means of springs 23 and 24, such springs being connected at one of their ends preferably to the respective eyes 25 and 26 secured to the tapper arm 15 and at their opposite ends secured preferably to the eyes 27 and 28, respectively, on the tapper supporting arm bracket 16, said springs diverging toward the tapper arm 15 and connected to the tapper arm on opposite sides of the pivot 20, one spring expanding while the other contracts.

Operatively connected to the pulley 8 is a belt or other suitable element 29 which is adapted to be connected up in any suitable manner with any type of driving mechanism, such for instance, as an electric motor (not shown). The character of driving mechanism is immaterial for obviously the shaft 9 and wheel 12 may be driven by an

electric, spring, or any other type of motor or driving mechanism and this particular feature of the device, being not a part of the present invention, it obviously need not be illustrated. It will now be understood that the shaft 9 is driven through any suitable driving mechanism and it will also be understood that the parts forming my device may be of any suitable size and materials so long as they perform the functions stated for them.

In practice, the driving shaft 9 is set in motion which causes rotation of the wheel 12 with the result that the pins 14 are brought successively into engagement with the inner end of the tapper arm 15, the engagement of each pin with the tapper arm shifting the window tapping member 21 out of engagement with the window pane 22 against the action of said springs 23 and 24, with the result that as each pin 14 frees itself of the tapper arm the member 21 engages the window pane causing a rapping or tapping sound against the latter and thereby attracting attention of pedestrians who may be passing the window adjacent which the device is located. Thus I provide for five or more or less rapid intermittent contacts of the window tapping member 21 against the pane 22 and by the interval between each tap may be varied according to the speed of rotation of the wheel 12. When the last pin 14 of the series of pins has passed the tapper arm 15 there is a pause or silence in tapping because of the tapper arm 15 remaining stationary against the window pane during the interval of time that the last pin 14 of the series thereof passes the tapper arm until the first pin of the series is rotated around for another engagement with the tapper arm. Thus, in addition to the intermittent sharp or quick tapping action caused by the bunched pins, the device really has a differential intermittent tapping action because of the pausing or silence of the tapping. In other words, there are quick sharp taps and then a pause or silence, the quick sharp taps being intermittent and uniform while the pausing action is considerably greater than any pausing action that takes place between the quick sharp taps.

The tapper arm 15, if made of metal, need not include the contacting member 21, the latter being used particularly when the tapper arm is composed of wood. Hence, if the contacting member is used, it will be regarded as a part of the tapper arm, so that when reference is made herein to the tapper arm contacting with the glass, board or other surface, it will be understood that the contact member 21 may or may not form part of the tapper arm.

What is claimed is:—

1. A window tapping device comprising a bracket, a shaft journaled in the bracket, a bracket secured to the first mentioned bracket, a window tapper arm pivotally secured to the second bracket, springs connecting the second bracket and the window tapper arm, a wheel mounted on the shaft and provided with a plurality of equi-distant projections, each adapted to engage the tapper arm to move the latter on its pivot against the action of said springs, and means for rotating the shaft.

2. A window tapping device comprising a supporting means, a shaft journaled in the supporting means, a window tapper arm pivotally secured to the supporting means, means to normally maintain the tapper arm in contact with the window pane, a wheel mounted on the shaft and provided with a plurality of projections each adapted to engage the tapper arm to move the latter on its pivot, and means for rotating the shaft to operate the tapper arm.

3. A window tapping device comprising a bracket, a shaft journaled in the bracket, a window tapper arm pivoted to the bracket, springs having connection with the tapper arm, a wheel mounted on the shaft and provided with a plurality of projections each adapted to engage the tapper arm to move the latter on its pivot against the action of said springs, and means for rotating the shaft.

4. A device of the character described comprising a supporting means, a shaft journaled in the supporting means, a tapper arm pivotally secured to the supporting means, means to hold the tapper arm normally in engagement with the window pane, bulletin board or other surface, and means mounted on the shaft to successively engage the tapper arm to intermittently tap the window pane, bulletin board or other surface, and means for operating said shaft.

5. A device of the character described comprising a supporting means, a shaft journaled in the supporting means, a tapper arm pivotally secured to the supporting means, means for holding the tapper arm normally in engagement with the window pane, bulletin board or other surface, means for rotating said shaft, and means on the shaft to successively engage the tapper arm to provide for a differential, intermittent tapping contact on the window pane, bulletin board or other surface.

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

CLARENCE M. LONG.

Witnesses:
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GEO. D. COPELAND.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."