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L. CROMWELL. • OMNIBUS REGISTER. ٠ Patented Apr. 15, 1856.

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No. 14,652. .

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THE NORRIS PETERS CO., PHOTO-LITHO . WASHINGTON, D. C.

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UNITED STATES PATENT OFFICE.

LEVI CROMWELL, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN OMNIBUS-REGISTERS.

Specification forming part of Letters Patent No. 14,652, dated April 5, 1856.

To all whom it may concern: 6 is a drop-leaf hinged to the dog pivoted Be it known that I, LEVI CROMWELL, of the on bolt 7. Between the leaf and back of the city and county of Baltimore, and State of dog is a slap-spring 8 for throwing the dog Maryland, have invented certain new and useinto the recess of the tooth on A. ful Improvements in Omnibus-Registers; and 9 is a fixed way on which the drop-leaf 6 I do hereby declare the following to be a full, plays up and down. clear, and exact description thereof, reference 10 is a stop inserted in the back of the head being had to the accompanying drawings, of dog 4. This stop is important, as it preforming a part of this specification. vents the passing of the tooth of A except The nature of my improvement consists in when the stem and dog are thrown entirely constructing an omnibus-register that shall up to its full stretch. For want of such proindicate the entrance and exit of every pasvision it is possible that the bell might be senger, giving notice by a stroke upon a bell struck twice and the register also, or the regisand indicating upon a dial-plate the number ter moved by the jolt of the coach when passpassing in and out. The arrangement is such ing over gutters in crossing streets. This has that efficiency of operation and accuracy of been the chief objection to all the registers registration are both secured. heretofore presented. This improvement in To enable others skilled in the art to make controlling the movement of the main wheel and use my improvement I will proceed to dealso prevents the possibility of persons effectscribe it as follows: ing a movement thereof by dancing on the A is the principal wheel, upon which the steps as they pass in the coach, as it is necesdraw-catch 4, connected by a wire with the sary to effect a movement of the register that step, operates. This is furnished with heavy the weight shall be applied and then fully reteeth for reasons to be hereinafter explained. moved to effect an action on the mechanism. a is a shaft passing through A. The following observations will enable any B is a small pinion mounted on shaft a, the one to understand its use: In setting the regisnumber of teeth in the pinion corresponding ter place the index at 100 and the small hand with the number of heavy teeth of wheel A. at 8. As each passenger passes into the coach C is a second wheel meshing into pinion a. his weight depresses the movable step con-Its shaft b carries the index or hand D. nected with the wire or rod from the end of E is a pinion on shaft b, giving motion to the pull and moves the large hand of the regthe third wheel F, whose axis carries the hand ister one division of the circle. The bell-G and registers the revolutions of the second hammer at the same time being drawn and wheel. released gives notice by a stroke on the bell. II is a heavy stop-dog or detent, furnished On the exit of the passenger the same result with a suitable spring d. is produced and a second division of the circle e e e are stubs projecting from the side of passed over, thus giving two marks or diviswheel Λ , whose office is to draw the hammer ions for each passenger carried. In summing I in a manner similar to that of a clock. up the dues or receipts it is only necessary to K is the bell. halve the number indicated, and this circum-The operating pawl effects the turning of stance will be a means of correcting the acthe wheel A by a drawing (not pushing) movecuracy of the register, as an even number ment, and is provided with an accommodation should be the result. for passing the heavy ratchet-teeth of wheel The wires, levers, and all parts of the appa-A. It consists of a sliding bar L, to which is ratus are all secured by pipes and casing to attached the stem 2. To the lower end of this prevent tampering with.

the rod or wire connected with the step is attached.

3 is a helical spring surrounding the stem. 4 is a hinged heavy dog pivoted on bolt 5. I

Having described my improvement, what I claim as my invention, and desire to secure by Letters Patent, is— The use of the bar 10 for the double pur-

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pose of a stop by which the operating-pawl shall at the end of its thrust be confined within the circle of the ratchet-teeth of the wheel, and thus lock it, and of a medium by which to apply a strong force through the sliding lever or drop-leaf 6, or its equivalent, to the spring of the pawl, substantially as herein set forth.

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In testimony whereof I have hereunto signed my name before two subscribing witnesses.

LEVI CROMWELL.

Witnesses:

W. I. CLARK, JOHN S. HOLLINGSHEAD.

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