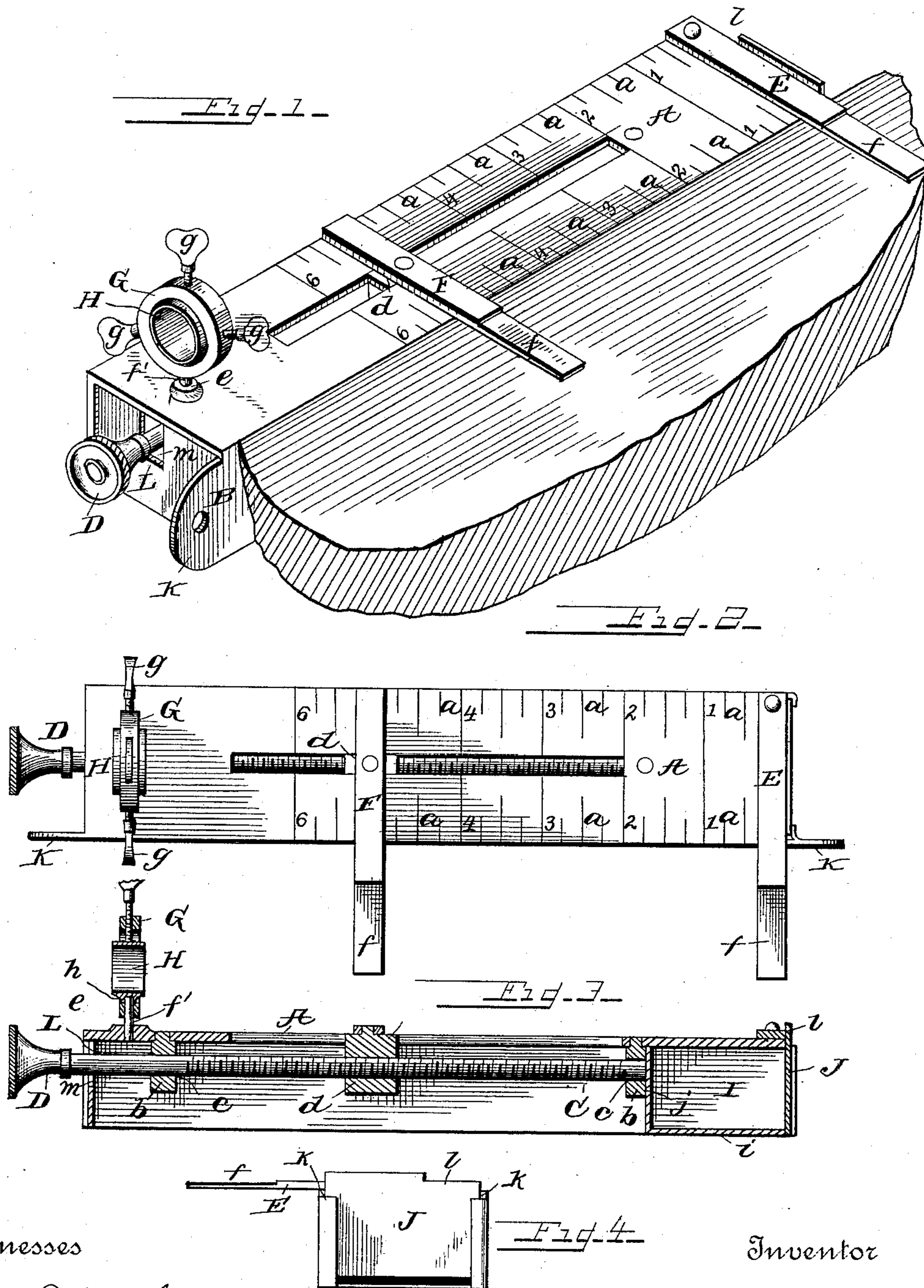


(No Model.)

J. A. MESSINA & P. BURGOS.
CIGAR MAKER'S GAGE.

No. 435,073.

Patented Aug. 26, 1890.



Witnesses

L. A. Faulschmidt
H. A. Harding

Inventor

John A. Messina & Pastor Burgos
By their Attorneys
Geo. Bancroft & Co.

UNITED STATES PATENT OFFICE.

JOHN ANTONIO MESSINA AND PASTOR BURGOS, OF KEY WEST, FLORIDA.

CIGAR-MAKER'S GAGE.

SPECIFICATION forming part of Letters Patent No. 435,073, dated August 26, 1890.

Application filed March 26, 1890. Serial No. 345,407. (No model.)

To all whom it may concern:

Be it known that we, JOHN ANTONIO MESSINA and PASTOR BURGOS, citizens of the United States, residing at Key West, in the county of Monroe and State of Florida, have invented certain new and useful Improvements in Cigar-Makers' Gages; and we 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 of reference marked thereon, which form a part of this specification.

Our invention relates to measuring-instruments, and has for its special object the production of a device to be attached to a cigar-maker's board and used as a gage in determining the length and circumference of cigars.

The invention will be hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, which form part of this specification, Figure 1 represents a perspective view of the instrument applied to a board; Fig. 2, a plan view of the same detached; Fig. 3, a longitudinal vertical section, and Fig. 4 an end view.

Reference being had to the drawings and the letters thereon, A indicates a scale-plate having downward-extending sides B C, the three parts constituting the body of the device, and preferably made of sheet metal soldered together, or one continuous piece bent into the form described. On the surface of scale-plate A is engraved or otherwise affixed a scale *a* of inches and fractional parts thereof, numbering from the extreme right toward the opposite end. To the center of the under side of said plate and near each end are riveted lugs *b*, provided with openings *c*, affording a bearing for the screw D, which, entering the instrument at the left, extends throughout about two-thirds the length thereof.

Two indicator-arms E F, each provided with inclines *f f* on their upper surfaces, tapering toward their outer ends, are secured to the surface of plate A, the former being swiveled to the outer right-hand corner, so that when in use its outer edge will register with the extreme end of scale-plate A. Arm F is swivelled to a lug *d*, and the latter tapped by an internal screw D, by which it may be caused to travel

up or down slot *e* through the center of plate A, carrying with it the arm F.

Near the end at which screw D enters the instrument and directly above said screw the scale-plate A is provided with a screw-threaded aperture *e*, through which screw *f'* passes and engages with the upper surface of screw D, above the point where the thread begins, to prevent the latter being turned when it is desired to retain arm F in a predetermined position. If preferred, screw D at this point may be square or octagonal in shape to facilitate in holding it in position when screw *f'* is set down upon it.

The head of screw *f'* consists of a metallic ring G, having its circumference tapped by three or more screw-threads for the reception of set-screws *g g g*, and provided at the base of its inner periphery with a lug *h*, the function of said lug and set-screws being to retain in position within the ring G an inner ring H, of brass or other metal, provided with a recess in its periphery to receive lug *h*, and designed to indicate the circumference of a cigar being made. These rings H are made of various sizes and one or another adjusted within the outer ring G, according to the size of the cigar being manufactured.

The opposite end of the instrument from that bearing the circumferential gage is provided with a box I, formed by connecting the lower edges of sides B C by a metallic bottom *i* and a vertical partition *j*, while the opposite end of the box is provided on both sides with grooveways *k*, in which slides a door J. This door J extends above the gage-plate A a distance equal to the thickness of arm E, thus affording a stop for said arm when opened in position for use, while in the upper rear edge is formed a recess *l*, over which the inner end of arm F passes when in a closed position, thus locking the door down. The side B is provided with lugs or extensions K K, by which the device is secured to the edge of a rolling-board by screws.

The end of the instrument corresponding with the door J may be closed by a plate L, connecting the two sides, provision being made therein for the extension of screw D, as at *m*.

The device being constructed and secured to the rear end of a cigar-maker's board, sub-

stantially as described, its use is as follows: Arms E F are each turned upon their swivel-joints until they project over and lie flat upon the surface of the board at right angles to the scale-plate A. The length and circumference of cigars to be made being given, arm F is advanced, through the medium of screw D, along scale-plate A until it reaches the predetermined position. Screw *f'* is now set hard down upon screw D, thus locking it on arm F against accidental displacement. A ring with an inner circumference equal to that of the cigar to be made is located within ring G. Cigars having been made in the usual manner are finally rolled upon the inclines α of arms E F to determine if they measure up to the required standard in length. If not, they are cut to fit. If so, they are next passed through ring H, to likewise determine their circumference.

In using the instrument it is necessary that the outer edge of arm E be considered the starting-point, though either edge of arm F may be used, provided it is set in a position on scale-plate A coincident with the length of cigar determined upon. The arm F may be secured to lug *d* by a thumb-screw, if desired, thus securing rigidity when extended and in use. Box I is intended as a receptacle for various-sized rings, such as H.

Having thus fully described our invention, what we claim is—

1. A measuring-instrument consisting of a scale-plate and a swiveled index reduced on its upper surface and adapted to travel thereon, in combination with a cigar-makers' board, to which the instrument is attached, substantially as described.

2. A measuring-instrument consisting of a scale-plate provided with a longitudinal slot, an index pivotally secured to a lug adapted to travel in said slot, and a screw engaging and propelling said lug, in combination with a cigar-maker's board, to which said instrument is secured, substantially as described.

3. A measuring-instrument consisting of a scale-plate provided with a longitudinal slot,

an index pivotally secured to a lug adapted to travel in said slot, a box formed in the end of the instrument, having a door projecting above the scale-plate and serving as a stop for a second index, and an index swiveled to the plate at the beginning of the scale, adapted when folded to project over the upper edge of said door for the purpose of locking it, substantially as described.

4. A measuring-instrument consisting of a scale-plate provided with a longitudinal slot, an index secured to a lug adapted to travel in said slot, a similar index swiveled to the plate at the beginning of the scale, and a box in the end of the instrument, having a door provided with an offset, over which the latter index projects when folded, substantially as described.

5. A measuring-instrument consisting of a scale-plate provided with indices, one of which is adjustable laterally on said plate, and a ring secured to the scale-plate for determining the circumference of a cigar, substantially as described.

6. A measuring-instrument consisting of a scale-plate provided with indices, one of which is adjustable laterally on said plate and a ring secured to the scale-plate provided with set-screws through its periphery and a lug at the base of its inner circumference, substantially as described.

7. A measuring-instrument consisting of a scale-plate provided with indices, one of which is adjustable laterally on said plate, a ring secured to the scale-plate and provided with set-screws through its periphery and a lug at the base of its inner circumference, and a ring retained within the aforesaid ring by said screws and lug, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN ANTONIO MESSINA.
PASTOR BURGOS.

Witnesses:

W. C. MALONEY,
RAMON ALVAREZ.