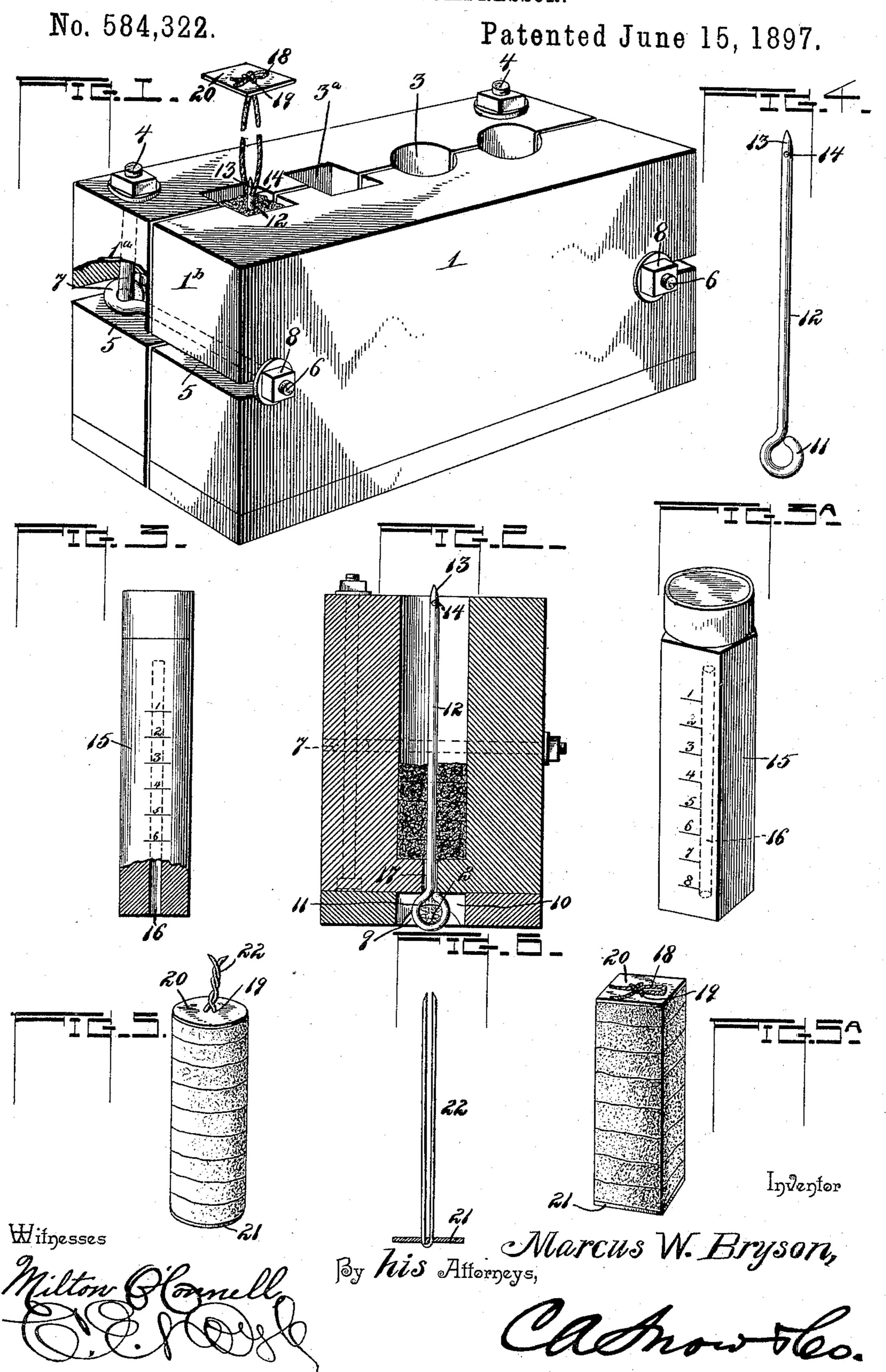
M. W. BRYSON.
TOBACCO COMPRESSOR.



United States Patent Office.

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TOBACCO-COMPRESSOR.

SPECIFICATION forming part of Letters Patent No. 584,322, dated June 15, 1897.

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To all whom it may concern:

Be it known that I, MARCUS W. BRYSON, a citizen of the United States, residing at Webster, in the county of Jackson and State of 5 North Carolina, have invented a new and useful Tobacco-Compressor, of which the following is a specification.

My invention relates to the manufacture of plug-tobacco, and has for its object to proro vide a sectional or layer plug of which the sections or layers are detachably connected to provide for the division of a plug into the desired number of parts without the use of a tobacco-knife.

A further object of my invention is to provide simple and efficient means for forming sectional or layer plugs.

Further objects and advantages of this invention will appear in the following descrip-20 tion, and the novel features thereof will be particularly pointed out in the appended claims.

view of a mold-box forming one member of the 25 apparatus employed for forming sectional or layer plugs. Fig. 2 is a transverse sectional view of the same, taken through one of the molds. Figs. 3 and 3a are detail views of different forms of packing-rods. Fig. 4 is a 30 detail view of the needle detached. Figs. 5 and 5^a are detail views of sectional or layer plugs constructed in accordance with my invention. Fig. 6 is a detail view of the wire tie upon which the sections or layers may be 35 strung without the use of the threading-pin or needle.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a box consisting of blocks 1a 1^b, hinged together, as shown in dotted lines at 2, to provide for their arrangement in either parallel or divergent planes, as desired, the inner surfaces of said blocks or sections 45 being provided with registering grooves 3 and 3a, forming molds of respectively cross-sectionally round and square construction. The block 1a is provided with fulcrum pins or bolts 4, which intersect registering grooves 5, 50 formed in the extremities of the blocks or

with terminal eyes 7, fitted upon said fulcrum pins or bolts. These locking-bolts are adapted to fit in the registering terminal grooves 5 and are fitted with nuts 8 to bear against the 55 outer side surface of the block or section 1b, as indicated in Fig. 1.

The contiguous angles of the sections of the box are cut away to form a longitudinal channel 9, in the floor of which, respectively 60 opposite the molds 3 and 3a, are formed seats 10 for the reception of a ring 11 on the needle or threading-pin 12, which is adapted to be arranged axially in one of the molds during the introduction of the tobacco-leaf therein- 65 to. Said needle or threading-pin is reduced or tapered to a point at 13 and is provided with an eye 14 for a purpose hereinafter explained.

In connection with the above-described ap- 70 paratus I employ a hollow packing-rod 15, of which different forms, respectively round and square, are illustrated in Figs. 3 and 3a, the In the drawings, Figure 1 is a perspective | same being provided with a bore 16 for the reception of the body or straight portion of 75 the needle or threading-pin during the operation of packing the tobacco-leaf into the mold, said needle or pin being arranged in a vertical guide 17, connecting the seat 10 with the lower end of the mold, as shown in Fig. 2. 80

In operation the threading-pin or needle is arranged in the mold to receive the tobacco, and the latter is introduced in wads into the mold, each layer being moved to its place and compressed by means of the packing-rod, 85 the exposed end of said rod being struck by means of a mallet or a similar tool to insure the desired compactness. In order to secure comparative uniformity in the thickness of the sections or layers, the packing-rods are co provided with indexes having transverse lines or points spaced at regular intervals and numbered consecutively, whereby the number of the index which is flush with the upper surface of the box indicates the number of layers 95 which have been introduced into the mold.

After the mold has been filled sufficiently to form a plug of the desired length a tie 18, of cord or similar flexible material, is threaded through the eye 14 of the threading-pin or 100 needle, and the extremities of said tie are sections, and locking-bolts 6 are provided threaded, respectively, through perforations

19 contiguous to the center of a holding-disk 20, which may be of metal, cardboard, or other stiff material. The threading-pin or needle is then withdrawn from the mold, thus draw-5 ing the tie, which is of greater length when doubled than the mold, through the centers of the layers until the looped extremity thereof projects beyond the bottom of the box. The cord is then detached from the pin or needle 10 by cutting the loop, and the extremities of the tie thus formed are threaded through perforations in a disk similar to that above described, and a tie is formed to fasten this lower disk 21 in contact with the lower end of 15 the plug after the plug has been withdrawn from the mold by opening the box. Thus the tie forms a flexible tension connection between the terminal disks which form the ends. of the plug to prevent the relative displace-20 ment of the members or layers thereof, and it is obvious that by severing the cord or detaching one of the disks the members of the plug may be separated, so that one or more of the layers may be sold separately. This 25 feature is of advantage in the retail trade, as it enables the consumer to buy any desired portion of a plug without necessitating the cutting of the plug by the dealer to suit the

> I also propose to employ a tie constructed of wire which is of sufficient stiffness to enable the sections or layers of tobacco to be threaded thereon without the intermediate use of the threading-pin or needle. This tie 35 22 is shown in Fig. 6 and also in Fig. 5, in

amount named.

the latter case the same being shown engaged with the terminal disks to hold the sections of a plug in the proper relative positions. In Fig. 6 the tie is shown detached, and it will be 40 seen that the extremities thereof are pointed;

to facilitate the impaling of the layers of tobacco-leaf thereon. This tie is used substantially as described in connection with the threading-pin or needle, in that as the leaf is

45 introduced into the mold in which the tie is arranged the packing-rod is employed to compress the layers, the extremities of the tie passing up into the bore of the packing-rod. The only difference in operation with the form

50 of tie shown in Fig. 6 is that its looped extremity is engaged with the lower terminal disk before it is inserted in the mold, whereby after the completion of the plug it is only necessary to connect the upper extremities of 55 the tie above the plane of the upper disk, said

extremities of the tie having been previously passed through the perforations in the disk. Various changes in the form, proportion, and the minor details of construction may be

60 resorted to without departing from the spirit or sacrificing any of the advantages of this

invention.

Having described my invention, what I claim is—

1. The herein-described tobacco-plug, comprising a plurality of separable axially-alined | nected to one section or block and arranged

wads arranged in transverse coextensive layers, said wads containing equal quantities of tobacco-leaf, and means for temporarily connecting said wads, the same consisting of a 70 tie extending axially through the wads and provided with terminal fastening devices, sub-

stantially as specified.

2. An apparatus for manufacturing plugtobacco, consisting of a mold, means disposed 75 axially in the mold and having a sharpened upper extremity upon which wads of tobaccoleaf introduced into the mold may be impaled, and a hollow packing-rod for independently compressing the wads to form detachable lay- 80 ers, said packing-rod being provided with a graduated scale for comparison with the contiguous portion of the mold, to indicate the relative thicknesses of successive layers, sub-

stantially as specified.

3. An apparatus for manufacturing plugtobacco, consisting of a mold, a terminallysharpened needle removably arranged in an axial position in the mold and adapted to be withdrawn through the bottom thereof, said 90 needle being provided at its upper pointed extremity with an eye for engagement with a tie, and a hollow packing-rod for independently compressing portions of tobacco-leaf consecutively introduced into the mold, all construct- 95 ed and arranged for operation as specified, whereby after the completion of the compression of the contents of the mold a tie may be engaged with the eye of the needle, and the latter withdrawn from the mold to pass said 100 tie axially through the compressed layers, substantially as described.

4. An apparatus for manufacturing plugtobacco consisting of a box provided with a mold, means disposed axially in the mold and 105 having a sharpened upper extremity upon which wads of tobacco-leaf introduced into the mold may be impaled, and a hollow packing-rod for independently compressing the wads to form detachable layers, substantially 110

as specified.

5. An apparatus for manufacturing plugtobacco consisting of a box constructed of relatively-movable blocks or sections provided in their contiguous faces with registering 115 grooves combined to form molds, and also provided with openings in the lower extremities or floors of the molds, an eye-pointed threading-pin or needle adapted to be inserted through the opening in the floor of a mold 120 and occupy an axial position therein with its pointed extremity uppermost, whereby wads of tobacco-leaf introduced into the mold are impaled thereon, and a hollow packing-rod for cooperation with the mold and threading- 125 pin or needle, substantially as specified.

6. An apparatus for manufacturing plugtobacco consisting of a box comprising hingedly-connected blocks or sections provided in their facing surfaces with registering grooves 130 forming molds, holding-arms pivotally conin registering grooves in the extremities of the blocks, and nuts threaded upon the free extremities of said rods to engage the exte-rior side surface of the other section or block, in combination with an impaling device ar-ranged axially in a mold, and an axially-bored packing-rod for introduction into the mold

around the impaling device, substantially as specified.

MARCUS W. BRYSON.

Witnesses:

J. W. KEENER, E. H. CAGLE.