April 27, 1965 J. F. ARSEN 3,180,070

COIN STACKING AND WRAPPING DEVICE

Filed June 25, 1962 2 Sheets-Sheet 1

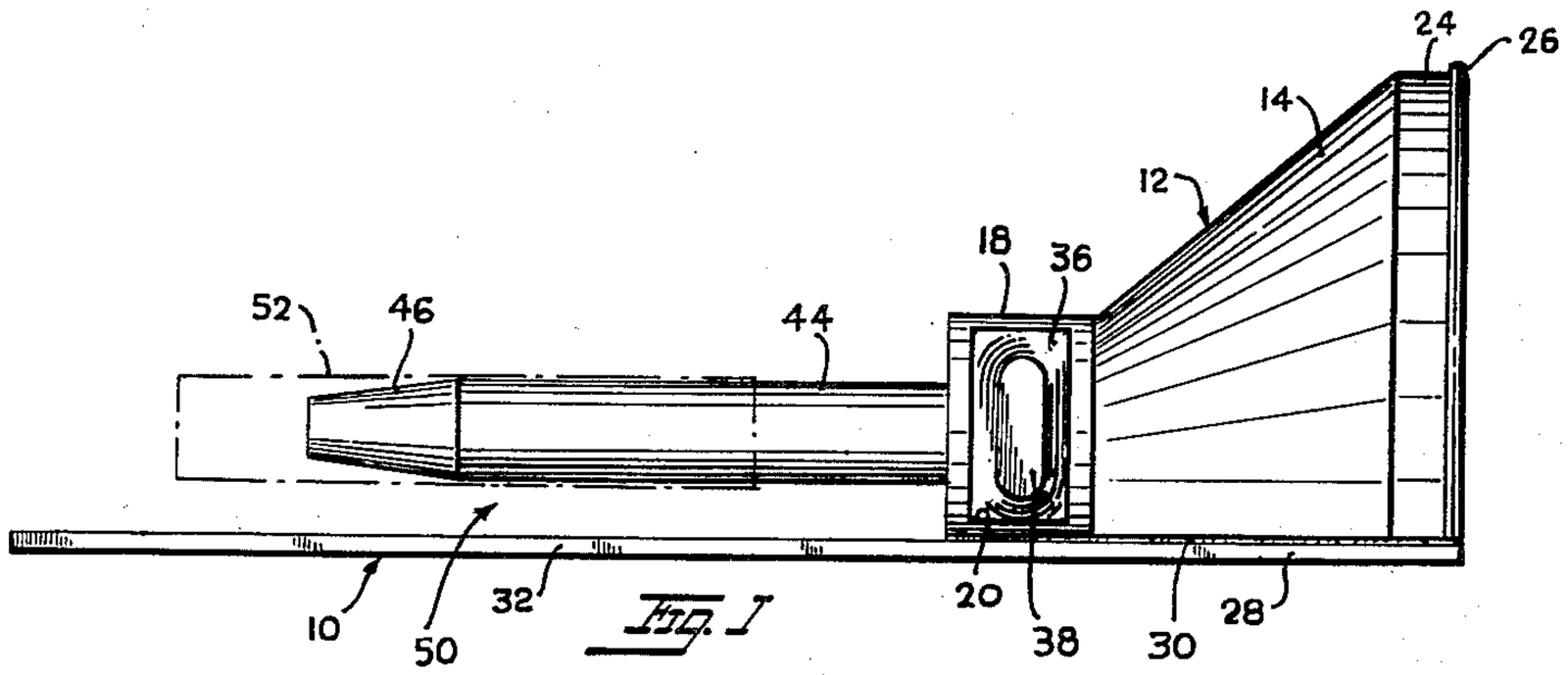

Fig. 1

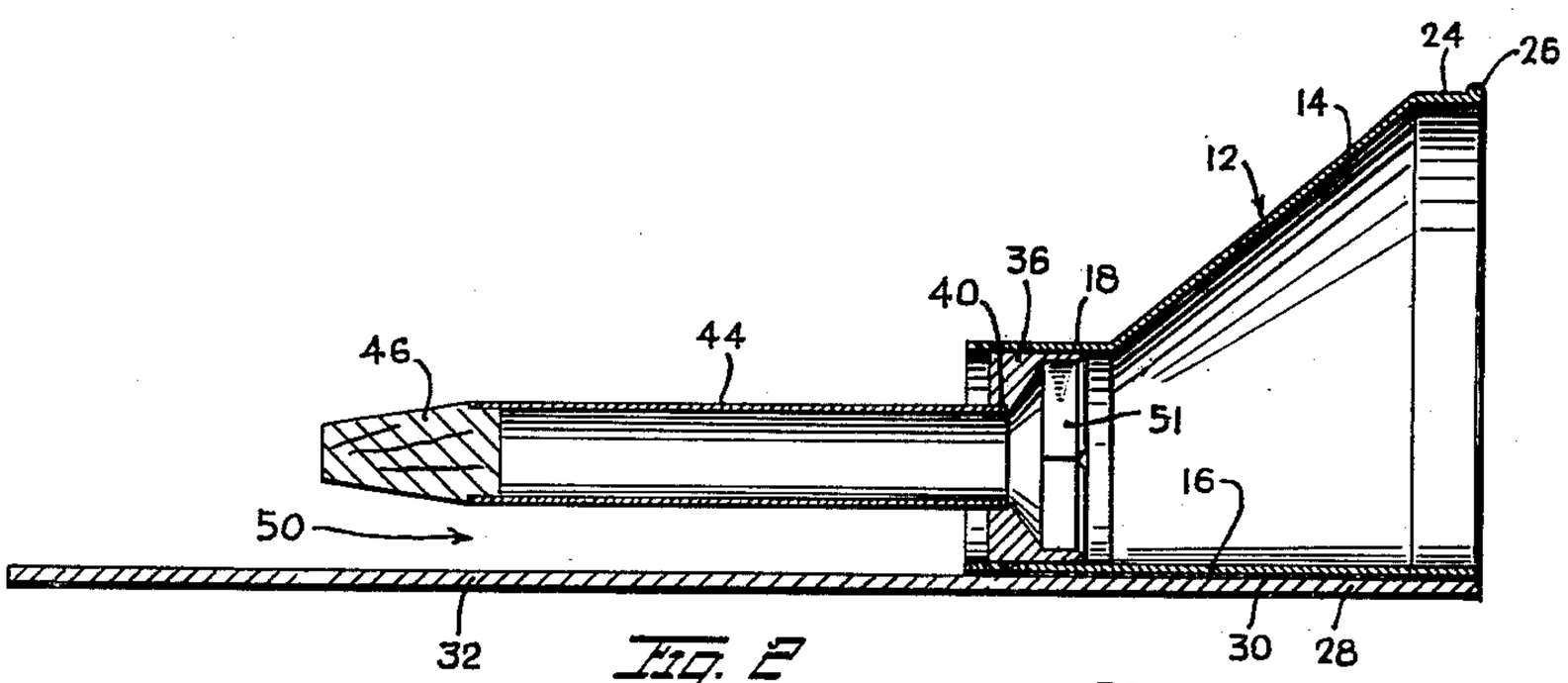

Fig. 2

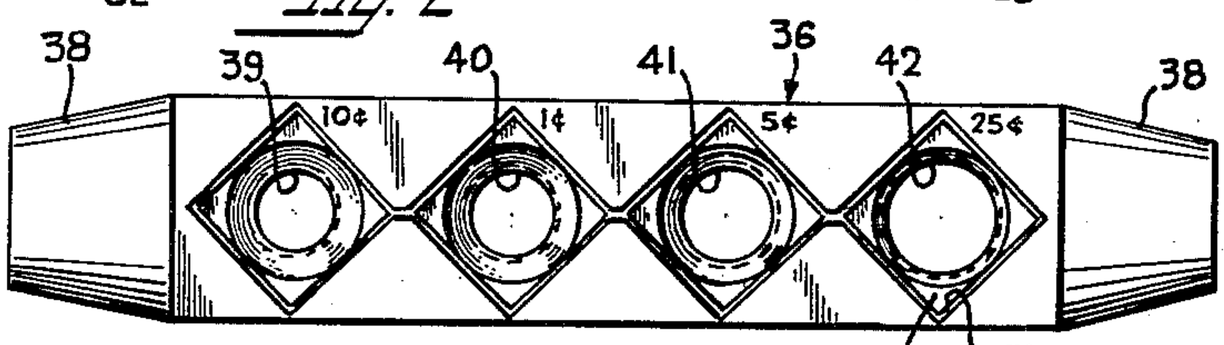

Fig. 7

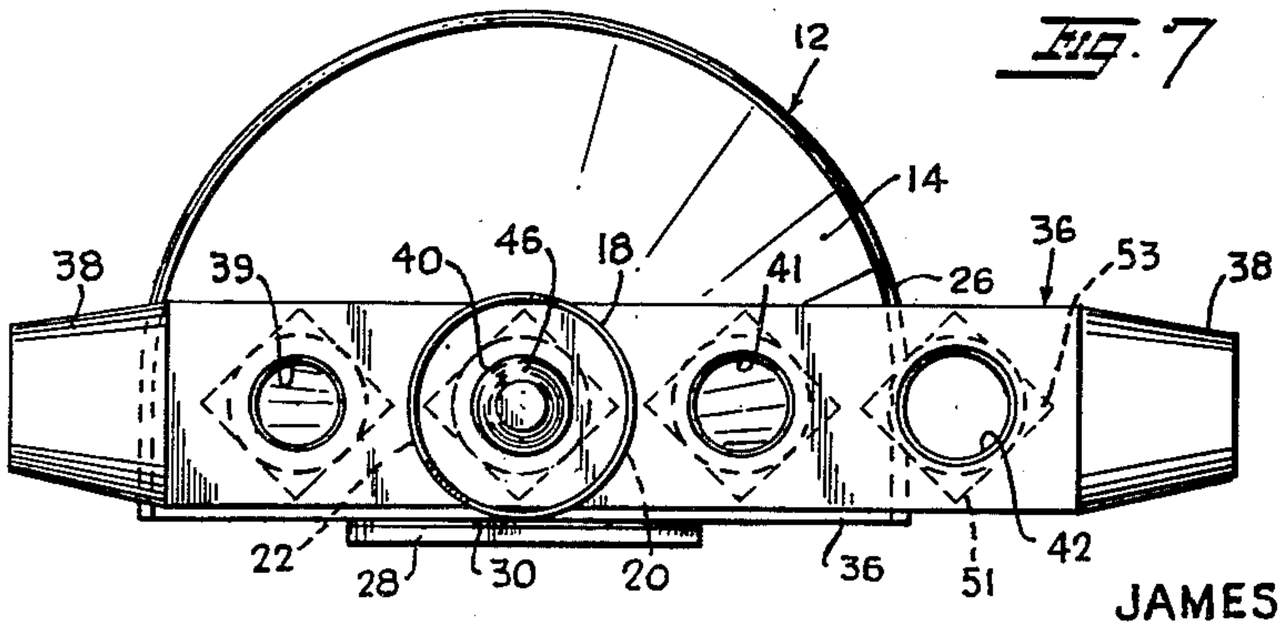

Fig. 3

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COIN STACKING AND WRAPPING DEVICE

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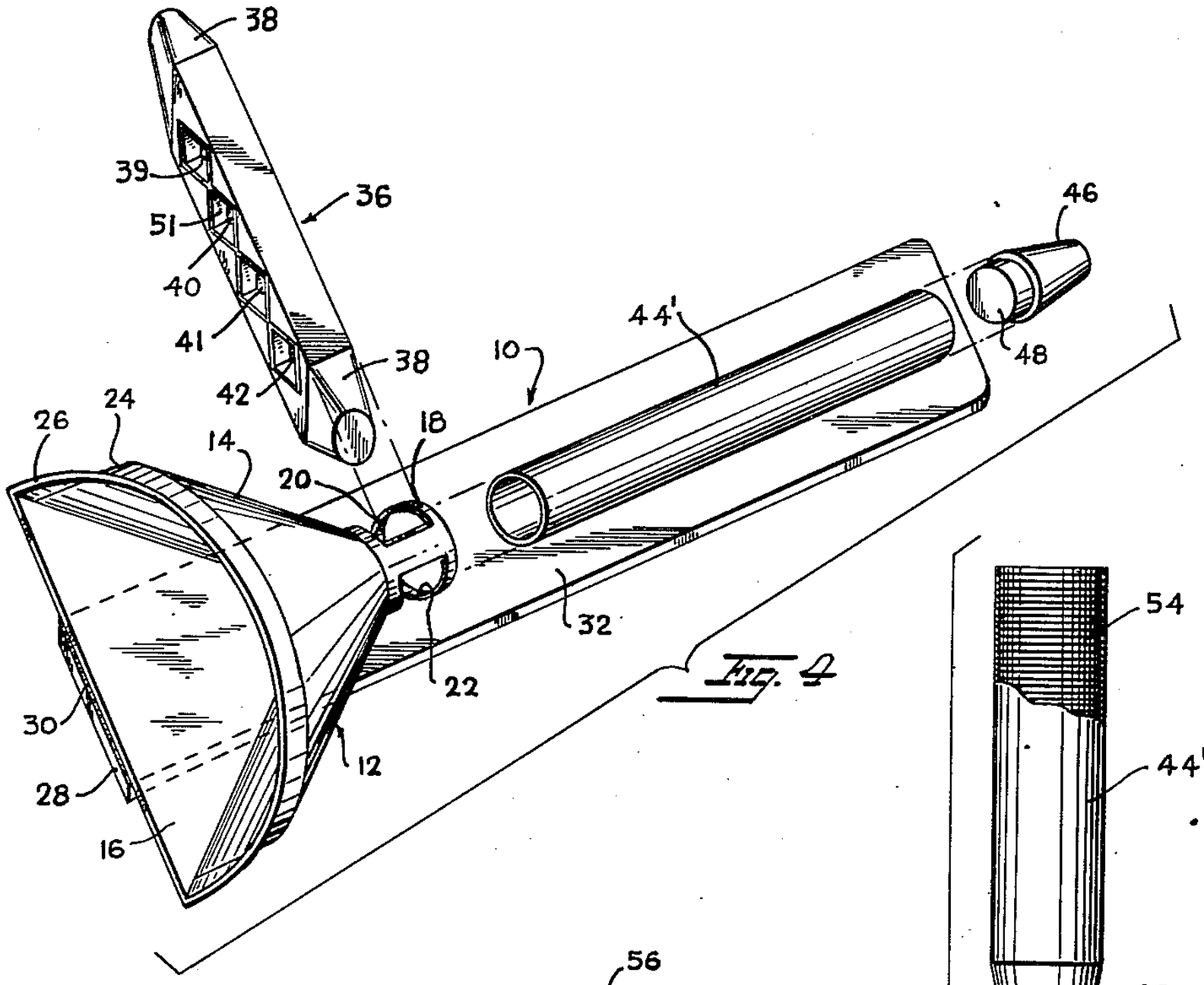

Fig. 4

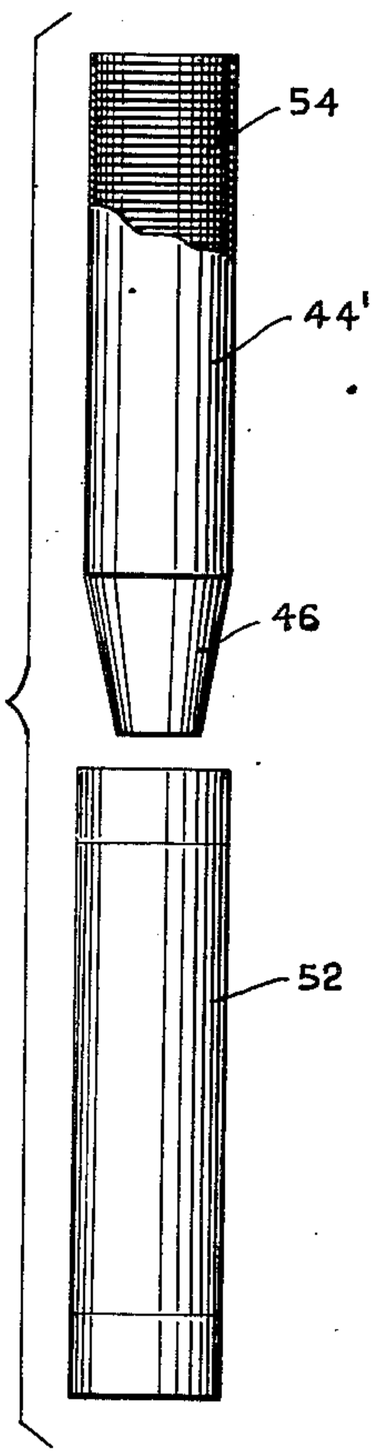

Fig. 6

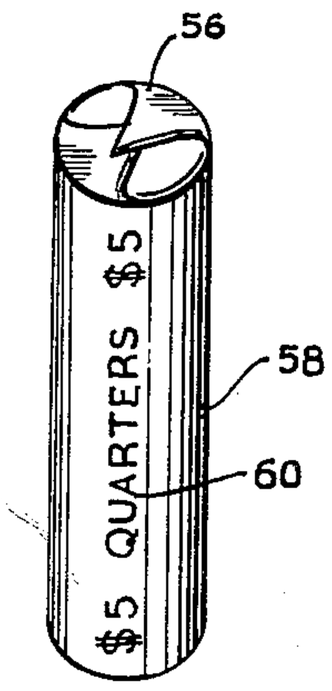

Fig. 8

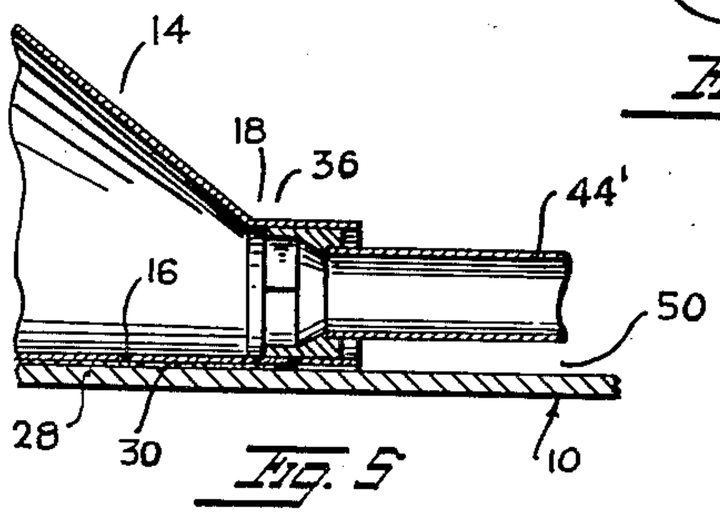

Fig. 5

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COIN STACKING AND WRAPPING DEVICE

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3 Claims. (Cl. 53—254)

This invention relates to new and useful improvements in a device for stacking and wrapping coins of various denominations.

A principal object of the present invention is to provide an improved coin assembler that can collect coins of different denominations in its holding tubular body in such a position as to enable a predetermined quantity to be scooped up and quickly and effectively transferred to a conventional paper coin wrapper or envelope.

Another object of the invention is to provide a coin stacking and wrapping device that permits the speedy insertion of the coins into the coin wrapper tube and the rapid folding of the ends of the wrapper tube thereby enclosing the coins therein.

A further object of the invention is to provide a very expeditious method of packaging coins.

Yet another object is to provide a coin stacking and wrapping device that is adjustable to suit coins of various denominations.

Still another object of the invention is to provide a coin stacking and wrapping device that is simple in construction, economical to manufacture and efficient for the purposes intended.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

FIG. 1 is a side elevational view of a coin stacking and wrapping device embodying my invention, a coin wrapper tube being shown in dash lines.

FIG. 2 is a longitudinal sectional view thereof, the coin wrapper tube being omitted.

FIG. 3 is a view from the right-hand end of FIG. 1.

FIG. 4 is a disassembled perspective view of the coin stacking and wrapping device of FIG. 1.

FIG. 5 is a reduced fragmentary sectional view similar to FIG. 2 with a different sized coin holder tube.

FIG. 6 is a disassembled top plan view of the coin holder tube and the coin wrapper tube, parts being shown broken away.

FIG. 7 is a front elevational view of the slidable block forming part of the invention.

FIG. 8 is a perspective view of a coin wrapper tube filled with coins.

Referring in detail to the drawings, in FIG. 1 a coin stacking and wrapping device is shown and designated generally by the reference numeral 10. The device 10 comprises a semi-funnel-shaped metal body 12 with an inwardly and downwardly tapered curved wall 14 covering the top and side thereof and an integral flat wall 16 at the bottom thereof as viewed in FIG. 1. The narrow end of the body 12 terminates in a hollow cylindrical extension 18 flattened at its bottom side and open at both sides 20 and 22. The wide end of the tapered curved wall 14 is formed with a flange 24 having a bead 26 around its outer end edge. The flat wall 16 of the body is supported on an elongated flat rectangular-shaped plate 28 of any suitable material and is secured thereon by adhesive 30. The plate 28 extends beyond the extension 18 forming a handle 32.

In order to accommodate and stack coins of various

denominations removable and interchangeable elongated metal tubes are supported with one end in the extension 18, such as the tube 44 shown in FIG. 1. The tube 44 accommodates a predetermined size of coin, such as a penny, a dime or any desirable size.

The tube 44 is frictionally held in extended position above and along the handle 32 and closely spaced therefrom, providing a clearance 50. A tapered plug 46 with a reduced neck portion 48 has its neck portion 48 plugged into the other end of the tube 44.

In order to accommodate and stack coins of various denominations and sizes it is necessary to removably support in extension 18 a tube similar to tube 44 but of the necessary diameter to accommodate the size of coin desired. For this purpose, an elongated flat-sided adapter block 36 is provided. The adapter block is substantially rectangular in configuration and cross section with tapered ends 38. The body of the block is formed with a series of spaced openings 39, 40, 41 and 42 extending across the body. Each opening is round at one side of the body and is formed with a diamond-shaped countersunk portion 51 at the opposite side of the body. The countersunk portion is larger than the round opening 40 and tapers inwardly joining the inner wall edge of the round opening thereby providing a shoulder 53 at each corner of the base of the countersunk portion 51. The shaping and tapering of the countersunk portion facilitates entry of the coin therein and into the end of the tube. The opening 39 in the block with its countersunk portion is dimensioned to accommodate a dime; the opening 40 and countersunk portion to accommodate a penny; the opening 41 and countersunk portion to accommodate a five cent piece and the opening 42 and countersunk portion to accommodate a quarter. It will be understood that the block 36 might have additional openings and countersunk portions to accommodate coins of larger diameters than the quarter. The adapter block 36 is slidable through the openings in the sides 20 and 22 of the extension 18 whereby any of the openings 39, 40, 41 or 42 may be brought into alignment with the center of the bore in the cylindrical extension 18. In FIG. 1, the tube 44 is of a size to accommodate pennies so that the opening 40 of the block 36 is shown aligned with the bore of the extension 18.

In FIG. 4, the coin stacking and wrapping device 10 of FIG. 1 is shown in disassembled condition, the adapter block 36 and the tube 44' being shown preparatory to being moved into assembled operative position as shown in FIG. 1.

In FIG. 5, a coin stacking and wrapping device 10' having a tube 44' that is of a size to accommodate quarters instead of pennies is shown. The end of the tube 44' is shown supported in opening 42 of the adapter block 36. In all other respects the device 10' is similar to device 10 and is similarly numbered.

In use, the device 10 such as the device shown in FIG. 1 with the tube 44 to accommodate pennies or the device 10' with tube 44' to accommodate quarters as shown in FIG. 5, is placed against the edge of the table top or other supporting surface for the coins 54 with the top surface of the flat portion 28 of the body 12 flush with the top surface of the table or the like. The coins supported on the table top are scooped into the semi-funnel-shaped body 12 and the body is then tilted upwardly to permit the coins to slide through the extension 18, through the opening in the supported end of the tube 44 or 44' and through the tube to the flat surface of the reduced neck portion 48 of the plug 46 which serves as a buffer or stopper for the inward movement of the coins. When the tube is sufficiently filled with coins as seen from the wide end of the body 12, the tube 44 or 44' is withdrawn and the tube is inserted into a conventional paper coin wraper tube 52 with both

ends open as seen in FIG. 6, the plugged end entering first.

The paper tube **52** is slightly longer than the coin holding tube **44** or **44'** and the end of the paper tube extending beyond the open end of the tube **44** or **44'** is folded into sealed condition as indicated at **56** in FIG. 8. The tube **44** or **44'** is then tilted so that its plugged end **46** is uppermost. The tube **44** or **44'** is then removed from the paper tube **52** by pulling it outwardly of the open end of the paper tube **52** whereupon said open end of the paper tube is folded similarly to the other end so as to produce a coin holding wrapper **58** as shown in FIG. 8 filled with coins. The wrapper **58** may have indicia **60** on the outside surface thereof to identify the contents thereof.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and that various changes and modifications may be made within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

1. A device for stacking and wrapping in paper coin tubes comprising a semi-funnel-shaped hollow tapered body having a flat wall portion, a hollow cylindrical extension on the smaller end of the tapered body, said extension having opposed open sides, an elongated perforated adapter block slidable through the open sides of the extension, said block having tapered ends to facilitate entrance, the perforations in the block being round with diamond shaped countersunk portions, and adapted to register with the central bore in the extension, a metal tube having one open end removably extending through and supported by one of the perforations in the block, and a plug in the other end of the tube, said tube forming an extension of the cylindrical extension, the perforations in said slidable block being in alignment, said perforations being of various diameters conforming to the diameters of coins of various denominations.

2. A device for stacking and wrapping coins in paper tubes comprising a semi-funnel-shaped hollow tapered body having a flat wall portion, a hollow cylindrical extension on the smaller end of the tapered body, said

extension having opposed open sides, an elongated perforated adapter block slidable through the open sides in the extension, said block having tapered ends to facilitate entrance, the perforations in the block being round with diamond shaped countersunk portions, and adapted to register with the central bore in the extension, a metal tube having one open end removably extending through and supported by one of the perforations in the block, and a plug in the other end of the tube, said tube forming an extension of the cylindrical extension, and a flat handle extending from the smaller end of the body.

3. A device for stacking and wrapping coins in paper tubes comprising a semi-funnel-shaped hollow tapered body having a flat wall portion, a hollow cylindrical extension on the smaller end of the tapered body, said extension having opposed open sides, a perforated adapter block slidable through the open sides in the cylinder, the perforations in the block adapted to register with the central bore in the extension, a metal tube having one open end removably extending through and supported by one of the perforations in the block, and a plug in the other end of the tube, said tube forming an extension of the cylindrical extension, the perforations in said slidable block being in alignment with each other, said perforations being of various diameters conforming to the diameters of coins of various denominations, said body having an integral flat extension forming a handle, said plug being tapered to receive the entering end of a paper coin tube, sleeved over the tube, said metal tube adapted to spread and hold open a paper coin tube at its receiving end in position for filling.

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FRANK E. BAILEY, *Primary Examiner.*