

### US005425215A

# United States Patent [19]

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Lewis et al.

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[54]	APPARATUS FOR PACKAGING LOOSE
	LEAF MATERIAL

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Brown & Williamson Tobacco [73] Assignee:

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[21] Appl. No.: 48,987

[22] Filed: Apr. 16, 1993

[51] Int. Cl.<sup>6</sup> ...... B65B 41/16; B65B 43/60; B65B 63/02

[52] U.S. Cl. ...... 53/170; 53/529;

53/575 

53/456, 170, 172

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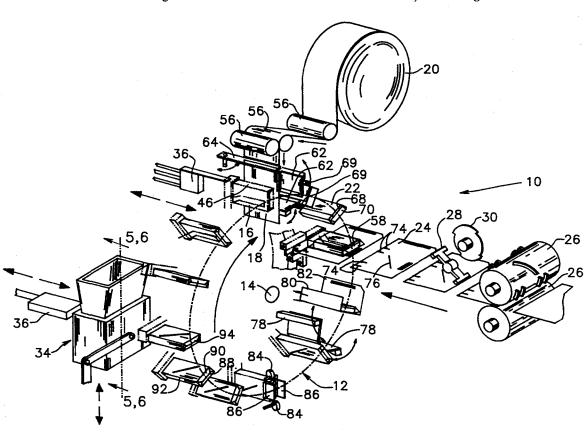
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1210874 3/1960 France. 916877 1/1963 United Kingdom . Primary Examiner-Linda B. Johnson Attorney, Agent, or Firm-Charles I. Sherman

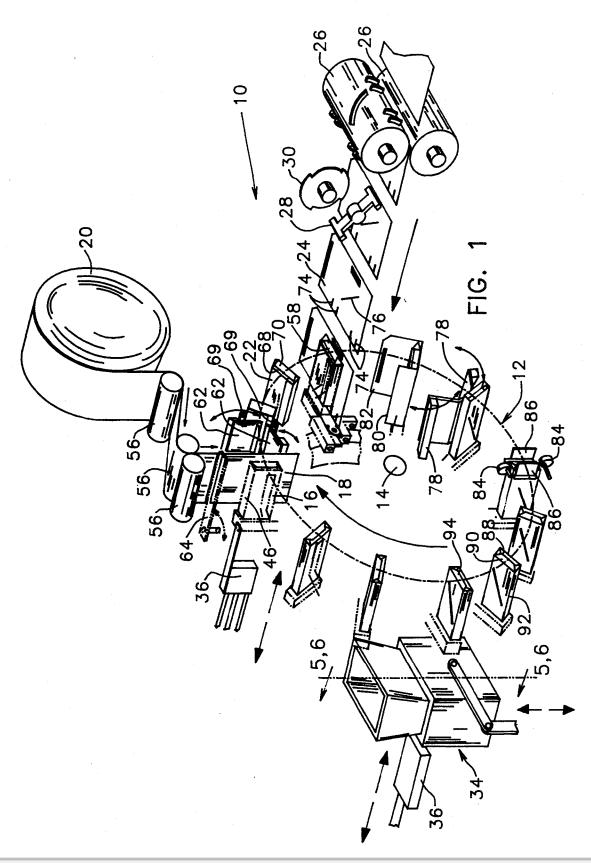
#### ABSTRACT [57]

The present invention comprises a device and method for feeding a cut loose-leaf material such as, for example tobacco, from a weight scale; dropping the tobacco into a hopper; compressing the tobacco into the desired size, shape, and density; and packaging the loose-leaf tobacco product. Packaging is accomplished by wrapping an inner foil and overwrap label around an arbor on a rotating arbor wheel. The package is constructed in various stages as the arbor wheel rotates to various positions. The inner foil is fed and wrapped around the arbor without extending the foil below the body of the package so that the foil does not form a bottom end. The foil extends above the body of the package and is folded to form a top end. An outer label having a sufficient length to extend past the top and bottom of the arbor is overwrapped about the foil innerwrap. The overwrap label extending past the bottom of the arbor is folded and glued over the foil innerwrap to form a top end to the package. The loose-leaf tobacco is compressed and pushed through the arbor into the open end of the package. The package of tobacco is forced off of the arbor wheel and the open end of the package is folded and glued as the package is transported therefrom.

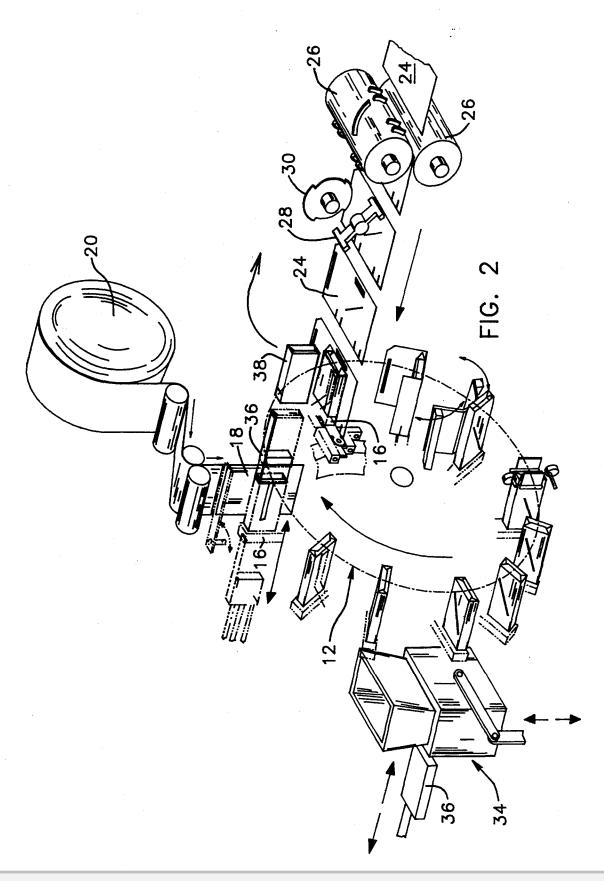
#### 12 Claims, 17 Drawing Sheets



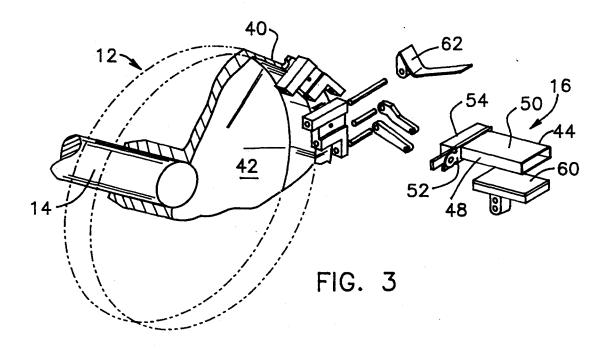


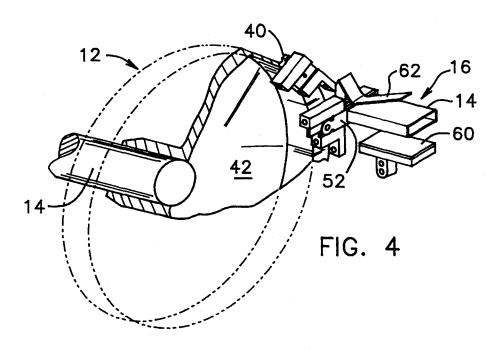


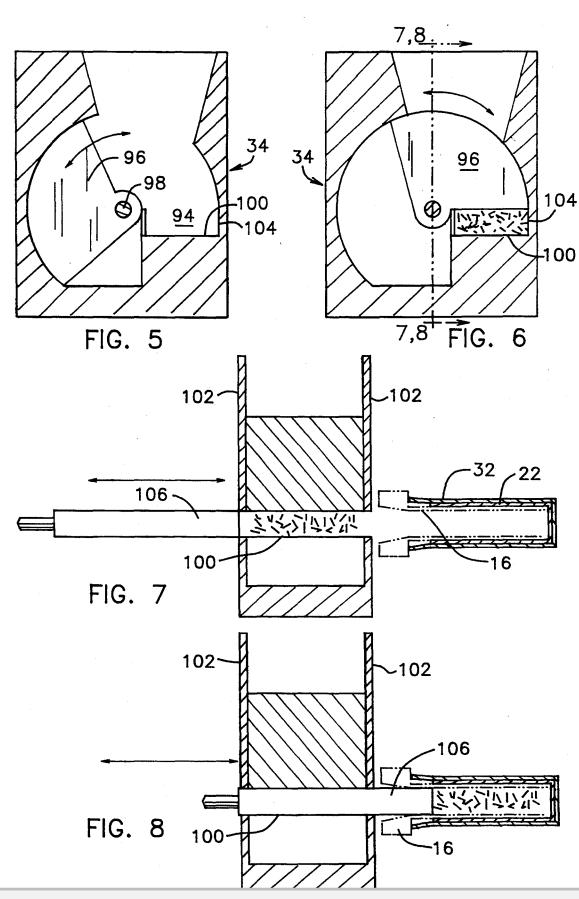














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