

CPC**COOPERATIVE PATENT CLASSIFICATION****A24C****MACHINES FOR MAKING CIGARS OR CIGARETTES****Making cigars****A24C 1/00**

Elements of cigar manufacture (combinations of two or more elements of cigar manufacture [A24C 3/00](#); attaching or incorporating filters or mouthpieces [A24C 5/47](#), [A24C 5/52](#); cutting machines in general [B26D](#))

- A24C 1/02 . Tobacco-feeding devices with or without means for dividing the tobacco into measured quantities
- A24C 1/04 . Devices for cutting cigar binders or wrappers
- A24C 1/045 . . {Safety devices therefor}
- A24C 1/08 . Making tobacco bunches
- A24C 1/10 . . Bunch-making machines with aprons and tables for wrapping
- A24C 1/12 . . Bunch-making machines with wrapping rollers
- A24C 1/14 . . Bunch-making machines with grippers
- A24C 1/16 . Treating bunches
- A24C 1/18 . . Moulds or presses for cigar bunches
- A24C 1/20 . . . Rotating moulds for cigar bunches
- A24C 1/22 . . Rolling formed bunches
- A24C 1/24 . . Cutting bunches to length
- A24C 1/26 . Applying the wrapper
- A24C 1/28 . . Wrapper transferring mechanisms
- A24C 1/30 . . Devices for applying the wrapper to the bunch
- A24C 1/32 . . Devices for forming the tips of cigars (filter-tips, mouthpieces [A24D 3/00](#))
- A24C 1/34 . . Adhesive-applying means
- A24C 1/36 . . Cutting wrapped bunches to length
- A24C 1/38 . Final treatment of cigars, e.g. sorting
- A24C 1/383 . . {Final drying of cigars}
- A24C 1/386 . . {Perforating cigars}
- A24C 1/40 . . Delustering or powdering cigars
- A24C 1/42 . . Marking, printing, or decorating cigars
- A24C 1/44 . . Bundling and pressing devices for cigars

A24C 3/00

Complete manufacture of cigars; Combinations of two or more elements of cigar manufacture

A24C 5/00

Making cigarettes; Making tipping materials for, or attaching filters or mouthpieces to, cigars or cigarettes

- A24C 5/002 . {Feeding arrangements for individual paper wrappers}
- A24C 5/005 . {Treatment of cigarette paper}

- A24C 5/007 .. {Perforating}
- A24C 5/02 . Cigarette-filling machines
- A24C 5/04 .. with continuous rod ([A24C 5/14](#) takes precedence)
- A24C 5/06 .. with pressing-chamber
- A24C 5/08 . Machines with aprons and tables for wrapping
- A24C 5/10 . Machines with wrapping rollers
- A24C 5/12 . Cutting the ends of filled and rolled cigarettes
- A24C 5/14 . Machines of the continuous-rod type ([tobacco feeding devices A24C 5/39](#))
- A24C 5/18 .. Forming the rod
- A24C 5/1807 ... {with compressing means, e.g. garniture}
- A24C 5/1814 ... {containing parts of different densities, e.g. dense ends}
- A24C 5/1821 ... {containing different tobacco mixtures, e.g. composite rods}
- A24C 5/1828 ... {by cutting tobacco sheet material}
- A24C 5/1835 ... {Multiple rod making devices}
- A24C 5/1842 ... {Trimming devices}
- A24C 5/185 ... {Separating devices, e.g. winnowing, removing impurities}
- A24C 5/1857 ... {Belt construction or driving means}
- A24C 5/1864 ... {Conditioning means, e.g. drying}
- A24C 5/1871 ... {Devices for regulating the tobacco quantity}
- A24C 5/1878 ... {for oval cigarettes}
- A24C 5/1885 ... {for cigarettes with an axial air duct}
- A24C 5/1892 ... {with additives, e.g. binding agent, flavorants}
- A24C 5/20 .. Reels; Supports for bobbins; Other accessories
- A24C 5/22 .. Creasing the paper seam
- A24C 5/24 .. Pasting the seam
- A24C 5/26 .. Drying the seam
- A24C 5/28 .. Cutting-off the tobacco rod
- A24C 5/30 ... Machines combined with devices for grinding the knives
- A24C 5/31 .. with special arrangements coming into operation during starting, slowing-down or breakdown of the machine, e.g. for diverting or breaking the continuous rod
- A24C 5/32 . Separating, ordering, counting, or examining cigarettes ([in relation to packaging B65B 19/00](#)); Regulating the feeding of tobacco according to rod or cigarette condition ([investigating or analysing materials by determining their chemical or physical properties G01N](#); [controlling in general G05](#))
- A24C 5/321 .. {Counting means}
- A24C 5/322 .. {Transporting cigarettes during manufacturing}
- A24C 5/323 ... {pneumatically}
- A24C 5/325 ... {from a hopper}
- A24C 5/326 ... {with lateral transferring means}
- A24C 5/327 ... {Construction details of the cigarette transport drum}
- A24C 5/328 ... {Controlling means}

- A24C 5/33 . . . Catching or ordering devices
- A24C 5/333 . . . {for combining several rows into one}
- A24C 5/336 . . . {Turning means}
- A24C 5/34 . . . Examining cigarettes or the rod, e.g. for regulating the feeding of tobacco;
Removing defective cigarettes
- A24C 5/3406 . . . {Controlling cigarette combustion}
- A24C 5/3412 . . . {by means of light, radiation or electrostatic fields ([A24C 5/3406 takes precedence](#))}
- A24C 5/3418 . . . {by pneumatic means ([A24C 5/3406 takes precedence](#))}
- A24C 5/3424 . . . {by weighing ([A24C 5/3406 takes precedence](#))}
- A24C 5/343 . . . by mechanical means, e.g. feelers
- A24C 5/345 . . . Removing defective cigarettes ([A24C 5/31 takes precedence](#))
- A24C 5/35 . . . Adaptations of conveying apparatus for transporting cigarettes from making machine
to packaging machine
- A24C 5/352 . . . Using containers, i.e. boats
- A24C 5/354 . . . Filling the boats at the making machine
- A24C 5/356 . . . Emptying the boats into the hopper of the packaging machine ([hopper construction B65B 19/04](#))
- A24C 5/358 . . . Boat constructions
- A24C 5/36 . . . Removing papers or other parts from defective cigarettes
- A24C 5/38 . . . Machines combined with printing devices
- A24C 5/39 . . . Tobacco feeding devices ([regulating feed according to rod or cigarette condition A24C 5/34](#))
- A24C 5/391 . . . {feeding to several cigarette making machines}
- A24C 5/392 . . . {feeding pneumatically}
- A24C 5/393 . . . {with a vibrating conveyer}
- A24C 5/394 . . . {with an auxiliary feed unit}
- A24C 5/395 . . . {with arrangements in the hopper, e.g. for spreading, tamping}
- A24C 5/396 . . . {with separating means, e.g. winnowing, removing impurities}
- A24C 5/397 . . . {with means for regulating the tobacco quantity}
- A24C 5/398 . . . {Driving arrangements}
- A24C 5/399 . . . {Component parts or details, e.g. feed roller, feed belt}
- A24C 5/40 . . . Hand-driven apparatus for making cigarettes
- A24C 5/42 . . . Pocket cigarette-fillers
- A24C 5/425 . . . {for obtaining cigarettes of various lengths}
- A24C 5/44 . . . Pocket cigarette-rollers
- A24C 5/46 . . . Making paper tubes for cigarettes ([making paper tubes in general B31C](#))
- A24C 5/465 . . . {the paper tubes partially containing a filter element}
- A24C 5/47 . . . Attaching filters or mouthpieces to cigars or cigarettes, e.g. inserting filters
into cigarettes or their mouthpieces ([A24C 5/52 takes precedence; filters, their manufacture, mouthpieces A24D 3/00](#))
- A24C 5/471 . . . {by means of a connecting band}

- A24C 5/472 . . . {Applying adhesives to the connecting band}
- A24C 5/473 . . . {Cutting the connecting band}
- A24C 5/474 . . {by inserting filters into cigarettes or their mouthpieces}
- A24C 5/475 . . {adapted for composite filters}
- A24C 5/476 . . {adapted for cigars or cigarettes with a hollow mouthpiece, e.g. recess filter cigarettes}
- A24C 5/477 . . . {with a mouthpiece made from plastic, wood or the like}
- A24C 5/478 . . {Transport means for filter- or cigarette-rods in view of their assembling}
- A24C 5/52 . Incorporating filters or mouthpieces into a cigarette rod or a tobacco rod (filters, their manufacture, mouthpieces [A24D 3/00](#))
- A24C 5/54 . Folding the ends of cigarette paper tubes after filling them with tobacco
- A24C 5/56 . Making tipping materials, e.g. sheet cork for mouthpieces of cigars or cigarettes, by mechanical means (chemical part of making tipping material [C08](#); wrapping papers for cigarettes [D21H](#))
- A24C 5/565 . . {by treating the tipping material with a liquid or viscous solution, e.g. paraffine (final treatment [A24C 5/608](#))}
- A24C 5/58 . . Applying the tipping materials
- A24C 5/583 . . . {to a continuous web of cigarette paper}
- A24C 5/586 . . . {to a cigarette}
- A24C 5/60 . Final treatment of cigarettes, e.g. marking, printing, branding, decorating
- A24C 5/601 . . {Marking, printing or decorating cigarettes}
- A24C 5/602 . . . {Bronzing}
- A24C 5/603 . . {Final drying of cigarettes}
- A24C 5/605 . . {Pressing of cigarettes, e.g. for obtaining an oval form}
- A24C 5/606 . . {Perforating cigarettes}
- A24C 5/607 . . . {by mechanical means}
- A24C 5/608 . . {Treating cigarettes with a liquid or viscous solution}