

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}