

## ECLA EUROPEAN CLASSIFICATION

**A47L DOMESTIC WASHING OR CLEANING** (brushes [A46B](#); cleaning quantities of bottles or of other hollow articles of one kind [B08B9/00](#); laundry [D06F](#)); **SUCTION CLEANERS IN GENERAL (cleaning in general B08)** [[C9502](#)]

### **Note**

Machines or implements which can be used for cleaning windows, window shades, window screens, venetian blinds, as well as floors, carpets, furniture, walls or wall coverings are classified in group [A47L11/00](#) or [A47L13/00](#).

**Guide heading:** Cleaning windows, window shades, window screens, venetian blinds

**A47L1/00** **Cleaning windows**

- A47L1/02 . Power-driven machines or devices
- A47L1/03 . . cleaning both sides of a window simultaneously
- A47L1/05 . . Hand apparatus with built-in electric motors
- A47L1/06 . Hand implements ([with built-in electric motors A47L1/05](#))
- A47L1/08 . . with provision for supplying liquids, e.g. cleaning agents ([A47L1/095](#), [A47L1/13](#), [A47L1/15](#) take precedence)
- A47L1/09 . . for cleaning one side with access from the other side only
- A47L1/095 . . . with provision for supplying liquids, e.g. cleaning agents
- A47L1/12 . . for cleaning both sides simultaneously
- A47L1/13 . . . with provision for supplying liquids, e.g. cleaning agents
- A47L1/15 . . Cloths, sponges, pads, or the like, e.g. containing cleaning agents
- A47L1/16 . Devices for defrosting window-panes ([H05B3/84](#) takes precedence)

**A47L3/00** **Safety devices for use in window-cleaning** (safety belts [A62B35/00](#); for scaffolding in general [E04G](#); for ladders [E06C](#))

- A47L3/02 . Cages; Platforms
- A47L3/04 . Safety ropes

**A47L4/00** **Cleaning window shades, window screens, venetian blinds** ([A47L1/15](#) takes precedence; suction cleaner nozzles [A47L9/02](#))

- A47L4/02 . Hand implements for cleaning venetian blinds
- A47L4/04 . Accessories facilitating cleaning, e.g. venetian blind separators, spreaders, or cleaning racks

**Guide heading:** Suction cleaners ([pneumatically taking-up undesirable matter from roads or like surfaces E01H1/08](#))

**A47L5/00****Structural features of suction cleaners**

- A47L5/02 . with user-driven air-pumps or compressors
- A47L5/04 . . with pistons, bellows, or diaphragms, e.g. driven by the cleaner-supporting wheels
- A47L5/05 . . . with driven dust-loosening tools
- A47L5/06 . . with rotary fans
- A47L5/08 . . . driven by cleaner-supporting wheels
- A47L5/10 . . . . with driven dust-loosening tools
  
- A47L5/12 . with power-driven air-pumps or air-compressors, e.g. driven by motor vehicle engine vacuum
- A47L5/14 . . cleaning by blowing-off, also combined with suction cleaning
- A47L5/16 . . with suction devices other than rotary fans
- A47L5/18 . . . with ejectors, e.g. connected to motor vehicle exhaust
- A47L5/20 . . . with bellows, diaphragms or pistons
- A47L5/22 . . with rotary fans
- A47L5/22B . . . [N: Convertible suction cleaners, i.e. convertible between different types thereof, e.g. from upright suction cleaners to sledge-type suction cleaners] [N1103]
- A47L5/24 . . . Hand-supported suction cleaners
- A47L5/26 . . . . with driven dust-loosening tools
- A47L5/28 . . . Suction cleaners with handles and nozzles fixed on the casings, e.g. wheeled suction cleaners with steering handle ([A47L5/24](#) takes precedence)
- A47L5/30 . . . . with driven dust-loosening tools, e.g. rotating brushes
- A47L5/32 . . . . with means for connecting a hose ([hose couplings for suction cleaners A47L9/24](#))
- A47L5/34 . . . . with height adjustment of nozzles or dust-loosening tools
- A47L5/36 . . . Suction cleaners with hose between nozzle and casing; Suction cleaners for fixing on staircases; Suction cleaners for carrying on the back
- A47L5/36A . . . . [N: of the horizontal type, e.g. canister or sledge type]
- A47L5/36B . . . . [N: of the vertical type, e.g. tank or bucket type]
- A47L5/36C . . . . [N: Suction cleaners for fixing on staircases]
- A47L5/38 . . . Built-in suction cleaner installations, i.e. with fixed tube system to which, at different stations, hoses can be connected

**A47L7/00****Suction cleaners adapted for additional purposes ([suction devices for removing ash F23J1/02](#)); Tables with suction openings for cleaning purposes; Containers for cleaning articles by suction; Suction cleaners adapted to cleaning of brushes; Suction cleaners adapted to taking-up liquids**

- A47L7/00B . [N: Suction cleaners adapted to take up liquids, e.g. wet or dry vacuum cleaners ([floor-scrubbing machines taking-up dirty liquid by suction A47L11/30](#))] [N1204] [C1207]
- A47L7/00B2 . . [N: with means mounted on the nozzle; nozzles specially adapted for the recovery of liquid] [N1204]
- A47L7/00B4 . . [N: with additional means or devices between nozzle and casing] [N1204]

- A47L7/00B6 . . [N: Details of the casing] [N1204]
- A47L7/00B8 . . [N: Recovery tanks (for cleaning machines A47L11/40D)] [N1204]
- A47L7/00B8B . . . [N: Security means, e.g. float valves or level switches for preventing overflow] [N1204]
- A47L7/00B8D . . . [N: with means for recycling the dirty liquid] [N1204]
- A47L7/00B8F . . . [N: with means for emptying the tanks] [N1204]
- A47L7/00B10 . . [N: Gaskets; Sealing means] [N1204]
  
- A47L7/00C . [N: Furniture or stationary devices with suction openings (built-in suction cleaners A47L5/38)] [N1204]
  
- A47L7/00D . [N: Containers for cleaning articles by suction] [N1204]
  
- A47L7/00E . [N: Suction cleaners adapted for cleaning of brushes (shakers for dust-cloths or mops A47L13/502)] [N1204]
  
- A47L7/00F . [N: adapted for disinfecting or sterilising] [N1204]
  
- A47L7/00G . [N: adapted for removing nail dust, hair or the like] [N1204]
  
- A47L7/00H . [N: with containers for ash, soot, contaminant or harmful materials (suction devices for removing ashes F23J1/02)] [N1204]
  
- A47L7/00J . [N: adapted for vehicle cleaning (vehicle cleaning apparatus for interior of land vehicles B60S3/00I)] [N1204]
  
- A47L7/00K . [N: adapted for mattresses or the like] [N1204]
  
- A47L7/00L . [N: adapted for special purposes not related to cleaning] [N1204]
  
- A47L7/00M . [N: Details of suction cleaner tools for additional purposes] [N1204]
  
- A47L7/00N . [N: Suction cleaners or attachments adapted to collect dust or waste from power tools] [N1204]
  
- A47L7/02 . with driven tools for special purposes (with floor-polishing tools [A47L11/20](#))
  
- A47L7/04 . for using the exhaust air for other purposes, e.g. for distribution of chemicals in a room, for sterilisation of the air (spraying or atomising in general [B05](#))
  
- A47L7/06 . . for supporting the suction cleaner on the exhaust air
- A47L7/08 . . with combustion of dust in exhaust air
  
- A47L9/00** **Details or accessories of suction cleaners, e.g. mechanical means for controlling the suction or for effecting pulsating action; Storing devices specially adapted to suction cleaners or parts thereof; Carrying-vehicles specially adapted for suction cleaners**
  
- A47L9/00B . [N: Storing devices (winding devices for electric cables [A47L9/26](#)); Supports, stands or holders] [C1008]
  
- A47L9/00B2 . . [N: integrated in or removably mounted upon the suction cleaner for storing parts of said suction cleaner] [N1008]

- A47L9/00B2B . . . [N: specially adapted for holding the suction cleaning tools] [N1008]
- A47L9/00B2D . . . [N: specially adapted for holding the suction hose] [N1008]
- A47L9/00B2F . . . [N: specially adapted for holding the suction tube] [N1008]
- A47L9/00B4 . . . [N: Stands or the like for temporary interruption of work] [N1008]
- A47L9/00B6 . . . [N: External storing devices; Stands, casings or the like for the storage of suction cleaners] [N1008]
  
- A47L9/00C . . . [N: Mechanical means for controlling the suction or for effecting pulsating action]
  
- A47L9/00D . . . [N: Means for exhaust-air diffusion; Means for sound or vibration damping]
  
- A47L9/00E . . . [N: Carrying-vehicles; Arrangements of trollies or wheels; Means for avoiding mechanical obstacles]
  
- A47L9/02 . . . Nozzles (suction nozzles for fluid transport [B65G51/00](#))
- A47L9/04 . . . with driven brushes or agitators
- A47L9/04B . . . . [N: Driving means for the brushes or agitators] [N0809]
- A47L9/04B2 . . . . . [N: driven by electric motor] [N0809]
- A47L9/04B4 . . . . . [N: driven by fluid pressure, e.g. by means of an air turbine] [N0809]
- A47L9/04B6 . . . . . [N: driven by the rotation of the supporting wheels on which the nozzle travels over the floor] [N0809]
- A47L9/04C . . . . [N: Gearing or transmission means therefor] [N0809]
- A47L9/04C2 . . . . . [N: Toothed gearings] [N0809]
- A47L9/04C2B . . . . . . [N: with gears having orbital motion, e.g. planetary gearing] [N0809]
- A47L9/04C4 . . . . . [N: for conveying motion by endless flexible members, e.g. belts] [N0809]
- A47L9/04C6 . . . . . [N: Friction gearings] [N0809]
- A47L9/04D . . . . [N: Bearing means therefor] [N0809]
- A47L9/04E . . . . [N: Dust-loosening tools, e.g. agitators, brushes] [N0809]
- A47L9/04E2 . . . . . [N: Rotating tools] [N0809]
- A47L9/04E2B . . . . . . [N: Discs] [N0809]
- A47L9/04E2C . . . . . . [N: Rolls] [N0809]
- A47L9/04E4 . . . . . [N: Reciprocating or oscillating tools, e.g. vibrators, agitators, beaters] [N0809]
- A47L9/04E6 . . . . . [N: Combinations or arrangements of several tools, e.g. edge cleaning tools] [N0809]
- A47L9/04F . . . . [N: Height adjustment of dust-loosening tools] [N0809]
- A47L9/06 . . . with fixed, e.g. adjustably fixed brushes or the like
- A47L9/06B . . . . [N: rigidly anchored brushes, combs, lips or pads] [N1003]
- A47L9/06B2 . . . . . [N: with means specially adapted for picking up threads, hair or the like, e.g. brushes, combs, lint pickers or bristles pads] [N1003]
- A47L9/06B4 . . . . . [N: Rigidly anchored edge brushes] [N1003]
- A47L9/06B6 . . . . . [N: Rigidly anchored lips, e.g. nozzles adapted for picking up liquids] [N1003]
- A47L9/06C . . . . [N with retractable brushes, combs, lips or pads] [N1003]
- A47L9/06C2 . . . . . [N: actuating means therefor]
- A47L9/06C2B . . . . . . [N: with pneumatic actuation] [N1003]

- A47L9/06C2C . . . . . [N: with mechanical actuation, e.g. using a lever] [N1003]
- A47L9/06D . . . . . [N: with adjustably mounted brushes, combs, lips or pads; Height adjustment of nozzle or dust loosening tools (for suction cleaners with handles and nozzles fixed on the casing [A47L5/34](#))] [N1003]
- A47L9/06E . . . . . [N: with tilting, floating or similarly arranged brushes, combs, lips or pads] [N1003]
- A47L9/06F . . . . . [N: with removable brushes, combs, lips or pads] [N1003]
- A47L9/06G . . . . . [N: Nozzles combined with a different cleaning side, e. g. duplex nozzles or dual purpose nozzles] [N1003]
- A47L9/06H . . . . . [N: Nozzles with cleaning cloths, e.g. using disposal fabrics for covering the nozzle] [N1003]
- A47L9/06J . . . . . [N: Specially shaped nozzles, e.g. for cleaning radiators, tubes, fans or the like; Dusters] [N1003]
- A47L9/08 . . . . . with means adapted for blowing
- A47L9/10 . . . . . Filters(in general[B01D](#); cyclones[B04C](#)); Dust separators; Dust removal; Automatic exchange of filters [N: (for machines for cleaning floors [A47L11/40](#))] [C0605]
- A47L9/10B . . . . . [N: Dust separators (cyclones [A47L9/16](#))] [N0603]
- A47L9/10B2 . . . . . [N: Means for intercepting small objects] [N0603]
- A47L9/10D . . . . . [N: Dust removal] [N0603]
- A47L9/10D2 . . . . . [N: Dust compression means] [N0603]
- A47L9/12 . . . . . Dry filters
- A47L9/12B . . . . . [N: flat] [N0603]
- A47L9/12C . . . . . [N: funnel-shaped] [N0603]
- A47L9/12D . . . . . [N: tube- or sleeve-shaped] [N0603]
- A47L9/14 . . . . . Bags or the like; [N: Rigid filtering receptacles;] Attachment of, or closures for, bags [N: or receptacles] [C0611]
- A47L9/14B . . . . . [N: Rigid filtering receptacles (dust collecting receptacles for cyclones [A47L9/16F](#))] [N0603]
- A47L9/14C . . . . . [N: Impermeable dust collecting bags] [N0603]
- A47L9/14D . . . . . [N: Means for mounting or attaching bags or filtering receptacles in suction cleaners; Adapters] [N0603]
- A47L9/14D2 . . . . . [N: Connecting plates, e.g. collars, end closures] [N0603]
- A47L9/14D2B . . . . . [N: with closure means] [N0603]
- A47L9/14D2B2 . . . . . [N: Self-sealing closures, e.g. valves] [N0603]
- A47L9/14D4 . . . . . [N: specially adapted for rigid filtering receptacles] [N0603]
- A47L9/14D6 . . . . . [N: combined with security means, e.g. for preventing use, e.g. in case of absence of the bag] [N0603]
- A47L9/14E . . . . . [N: Means for removing bags in suction cleaners, e.g. ejecting means; Means for exchanging bags] [N0603]
- A47L9/14F . . . . . [N: Emptying means; Reusable bags] [N0603]
- A47L9/16 . . . . . Arrangement or disposition of cyclones or other devices with centrifugal action
- A47L9/16B . . . . . [N: Cyclonic chamber constructions] [N0603]
- A47L9/16C . . . . . [N: Multiple arrangement thereof] [N0603]
- A47L9/16C2 . . . . . [N: for series flow] [N0603]
- A47L9/16C2B . . . . . [N: Concentric cyclones] [N0603]

- A47L9/16C4 . . . . [N: for parallel flow] [N0603]
- A47L9/16D . . . [N: Construction of inlets] [N0603]
- A47L9/16E . . . [N: Construction of outlets] [N0603]
- A47L9/16E2 . . . . [N: with filtering means] [N0603]
- A47L9/16E2B . . . . . [N: movable, revolving or rotary] [N0603]
- A47L9/16F . . . [N: Dust collecting chambers; Dust collecting receptacles] [N0603]
- A47L9/16G . . . [N: Mounting or coupling means for cyclonic chamber or dust receptacles] [N0603]
- A47L9/18 . . Liquid filters
- A47L9/18B . . . [N: Separating by passing the air through a liquid bath] [N0603]
- A47L9/18C . . . [N: Separating by passing the air over a liquid bath (arrangement of cyclones A47L9/16)] [N0603]
- A47L9/18D . . . [N: Spray cleaning] [N0603]
- A47L9/18E . . . [N: Means for the mechanical control of flow of air, e.g. deflectors, baffles or labyrinths] [N0603]
- A47L9/18F . . . [N: Construction of outlets] [N0603]
- A47L9/18F2 . . . . [N: with filtering means, e.g. separators] [N0603]
- A47L9/18F2B . . . . . [N: movable, revolving or rotary] [N0603]
- A47L9/19 . . Means for monitoring filtering operation
- A47L9/20 . Means for cleaning filters
- A47L9/22 . Mountings for motor fan assemblies
- A47L9/24 . Hoses[N: or pipes]; Hose [N: or pipe] couplings (hoses or hose joints in general [F16L](#)) [C9806]
- A47L9/24B . . [N: Hose or pipe couplings] [N9607] [C9806]
- A47L9/24B2 . . . [N: for telescopic or extensible hoses or pipes] [N9607] [C9806]
- A47L9/24B4 . . . [N: with electrical connectors] [N9806]
- A47L9/24C . . [N: Parts, details or accessories of hoses or pipes (nozzles [A47L9/02](#))] [N9806] [C9904]
- A47L9/26 . Incorporation of winding devices for electric cables (devices specially adapted for repeatedly paying-out or re-storing cables [B65H75/34](#); arrangements of electrical cables or lines between relatively-movable parts [H02G11/00](#))
- A47L9/28 . Installation of the electric equipment, e.g. adaptation or attachment to the suction cleaner; Regulation of suction cleaners by electric means
- A47L9/28B . . [N: Parameters or conditions being sensed] [N1204]
- A47L9/28B2 . . . [N: the amount or condition of incoming dirt or dust] [N1204]
- A47L9/28B2B . . . . [N: using optical detectors]
- A47L9/28B4 . . . [N: Pressure, vacuum level or airflow] [N1204]
- A47L9/28B6 . . . [N: the condition of the floor] [N1204]
- A47L9/28B8 . . . [N: Motor parameters, e.g. motor load or speed] [N1204]
- A47L9/28D . . [N: characterised by the parts which are regulated] [N1204]
- A47L9/28D2 . . . [N: Suction motors or blowers] [N1204]

- A47L9/28D4 . . . [N: Surface treating elements] [N1204]
- A47L9/28D6 . . . [N: Elements for displacement of the vacuum cleaner or the accessories therefor, e.g. wheels, casters or nozzles] [N1204]
- A47L9/28F . . [N: User input or output elements for control, e.g. buttons, switches or displays] [N1204]
- A47L9/28F2 . . . [N: Control elements activated by pivoting movement of the upright vacuum cleaner handle] [N1204]
- A47L9/28P . . [N: Arrangments for power supply of vacuum cleaners or the accessories thereof] [N1204]
- A47L9/28P2 . . . [N: Docking units or charging stations (for autonomous or robotic vacuum cleaners K47L201/02)] [N1204]
- A47L9/28P4 . . . [N: Dual-powered vacuum cleaners, i.e. devices which can be operated with mains power supply or by batteries] [N1204]
- A47L9/28P6 . . . [N: Details of arrangements of batteries or their installation] [N1204]
- A47L9/28S . . [N: Safety or protection devices or systems, e.g. for prevention of motor over-heating or for protection of the user] [N1204]
- A47L9/28T . . [N: Details related to signal transmission in suction cleaners] [N1204]
- A47L9/30 . . Arrangement of illuminating devices
- A47L9/32 . Handles
- A47L9/32B . . [N: for hand-supported suction cleaners]
- A47L9/32C . . [N: for wheeled suction cleaners with steering handle]
- A47L9/32D . . [N: for suction cleaners with hose between nozzle and casing]

**Guide heading:** **Cleaning floors, carpets, furniture, walls, or wall coverings**

**A47L11/00** **Machines for cleaning floors, carpets, furniture, walls, or wall coverings**

- A47L11/02 . Floor surfacing or polishing machines ([polishing machines in general B24B29/00](#))
- A47L11/03 . . characterised by having provisions for supplying cleaning or polishing agents [N: ([A47L11/06A](#), [A47L11/08A](#), [A47L11/12A](#), [A47L11/14A](#), [A47L11/16A](#), [A47L11/162A](#), [A47L11/18A](#), [A47L11/20A](#) take precedence)]
- A47L11/04 . . hand-driven
- A47L11/06 . . . with reciprocating or oscillating tools
- A47L11/06A . . . . [N: with supply of cleaning agents]
- A47L11/08 . . . with rotating tools
- A47L11/08A . . . . [N: with supply of cleaning agents]
- A47L11/10 . . motor-driven
- A47L11/12 . . . with reciprocating or oscillating tools
- A47L11/12A . . . . [N: with supply of cleaning agents]
- A47L11/14 . . . with rotating tools
- A47L11/14A . . . . [N: with supply of cleaning agents]
- A47L11/16 . . . . the tools being disc brushes
- A47L11/16A . . . . . [N: with supply of cleaning agents]
- A47L11/162 . . . . . having only a single disc brush

- A47L11/162A . . . . . [N: with supply of cleaning agents]
- A47L11/164 . . . . . Parts or details of the brushing tools
- A47L11/18 . . . . . the tools being roll brushes
- A47L11/18A . . . . . [N: with supply of cleaning agents]
- A47L11/19 . . . . . Parts or details of the brushing tools
- A47L11/20 . . . . . combined with vacuum cleaning devices
- A47L11/20A . . . . . [N: with supply of cleaning agents]
- A47L11/202 . . . . . having separate drive for the cleaning brushes
- A47L11/202B . . . . . [N: the tools being disc brushes]
- A47L11/204 . . . . . having combined drive for brushes and for vacuum cleaning
- A47L11/205 . . . . . for reciprocating brushes
- A47L11/206 . . . . . for rotary disc brushes
- A47L11/206B . . . . . [N: having only one disc brush]
  
- A47L11/22 . . . . . Floor-sweeping machines, hand-driven
  
- A47L11/24 . . . . . Floor-sweeping machines, motor-driven
  
- A47L11/26 . . . . . Floor-scrubbing machines, hand-driven ([A47L11/29](#) takes precedence)
  
- A47L11/28 . . . . . Floor-scrubbing machines, motor-driven ([A47L11/29](#) takes precedence)
- A47L11/282 . . . . . having rotary tools
- A47L11/283 . . . . . the tools being disc brushes
- A47L11/284 . . . . . having reciprocating tools
  
- A47L11/29 . . . . . Floor-scrubbing machines characterised by means for taking-up dirty liquid
- A47L11/292 . . . . . having rotary tools ([A47L11/30](#) takes precedence)
- A47L11/293 . . . . . the tools being disc brushes
- A47L11/294 . . . . . having reciprocating tools ([A47L11/30](#) takes precedence)
- A47L11/30 . . . . . by suction
- A47L11/30B . . . . . [N: having rotary tools]
- A47L11/30B2 . . . . . [N: the tools being disc brushes]
- A47L11/30D . . . . . [N: having reciprocating tools]
  
- A47L11/32 . . . . . Carpet-sweepers ([combined with suction cleaners A47L7/02](#))
- A47L11/32A . . . . . [N: Shampoo devices for carpet-sweepers]
- A47L11/33 . . . . . having means for storing dirt
  
- A47L11/34 . . . . . Machines for treating carpets in position by liquid, foam, or vapour, e.g. by steam
  
- A47L11/36 . . . . . Machines for beating upholstery
  
- A47L11/38 . . . . . Machines, specially adapted for cleaning walls, ceilings, roofs, or the like
  
- A47L11/40 . . . . . Parts or details of machines not [N: provided for in] groups [A47L11/02](#) to [A47L11/38](#), [N: or not restricted to one of these groups], e.g. handles, arrangement of switches, skirts, buffers, levers [C1008]

A47L11/40B	. .	[N: Installations of electric equipment] [N1107]
A47L11/40B2	. . .	[N: Arrangements of batteries or cells; Electric power supply arrangements] [N1107]
A47L11/40B4	. . .	[N: Arrangements of switches, indicators or the like] [N1107]
A47L11/40C	. .	[N: Regulation of the cleaning machine by electric means; Control systems and remote control systems therefor] [N1107]
A47L11/40D	. .	[N: Contaminants collecting devices, i.e. hoppers, tanks or the like] [N1107]
A47L11/40D2	. . .	[N: specially adapted for collecting fluids] [N1107]
A47L11/40D2B	. . . .	[N: Fill level sensors; Security means to prevent overflow, e.g. float valves] [N1107]
A47L11/40D2D	. . . .	[N: with means for recycling the dirty liquid (treatment of waste water C02F)] [N1107]
A47L11/40D4	. . .	[N: Means for emptying] [N1107]
A47L11/40E	. .	[N: Filtering or separating contaminants or debris] [N1107]
A47L11/40E2	. . .	[N: Means for monitoring filtering operation] [N1107]
A47L11/40E4	. . .	[N: Means for cleaning filters] [N1107]
A47L11/40F	. .	[N: Parts or details of the surface treating tools] [N1107]
A47L11/40F2	. . .	[N: Disk shaped surface treating tools] [N1107]
A47L11/40F4	. . .	[N: Roll shaped surface treating tools] [N1107]
A47L11/40F6	. . .	[N: Vacuuming or pick-up tools; Squeegees] [N1107]
A47L11/40F8	. . .	[N: Wound-up or endless cleaning belts] [N1107]
A47L11/40F10	. . .	[N: Machines using UV-lamps, IR-lamps, ultrasound or plasma cleaning] [N1107]
A47L11/40G	. .	[N: Movement of the tools or the like perpendicular to the cleaning surface] [N1107]
A47L11/40G2	. . .	[N: for lifting the tools to a non-working position] [N1107]
A47L11/40G4	. . .	[N: for adjusting the height of the tool] [N1107]
A47L11/40H	. .	[N: Steering means; Means for avoiding obstacles; Details related to the place where the driver is accommodated] [N1107]
A47L11/40J	. .	[N: Driving means; Transmission means therefor] [N1107]
A47L11/40J2	. . .	[N: Propulsion of the whole machine] [N1107]
A47L11/40J4	. . .	[N: Driving or transmission means for the cleaning tools] [N1107]
A47L11/40K	. .	[N: Arrangement of castors or wheels] [N1107]
A47L11/40L	. .	[N: Handles; levers] [N1107]
A47L11/40M	. .	[N: Skirts or splash guards] [N1107]
A47L11/40N	. .	[N: Means for supplying cleaning or surface treating agents] [N1107]
A47L11/40N2	. . .	[N: Liquid supply reservoirs; Preparation of the agents, e.g. mixing devices] [N1107]
A47L11/40N4	. . .	[N: Arrangements for steam generation] [N1107]
A47L11/40N6	. . .	[N: Supply pumps; Spraying devices; Supply conduits] [N1107]
A47L11/40P	. .	[N: Storing or parking devices, arrangements therefor; Means allowing transport of the machine when it is not being used] [N1107]
A47L11/40R	. .	[N: Accessories to be used in combination with conventional vacuum-cleaning devices] [N1107]
A47L11/40T	. .	[N: Means for exhaust-air diffusion; Exhaust-air treatment, e.g. air purification; Means for sound or vibration damping] [N1107]

**A47L13/00**

**Implements for cleaning floors, carpets, furniture, walls, or wall coverings (brushes, their handles or fastenings [A46B](#), [B25G](#); scrapers for finishing work on buildings [E04F21/00](#))**

- A47L13/02 . Scraping
- A47L13/022 . . Scraper handles
- A47L13/03 . . Scrapers having provisions for supplying cleaning agents
- A47L13/04 . . with steel wool
- A47L13/06 . . with wire brushes or wire meshes
- A47L13/07 . . . Metal sponges ([A47L13/022](#), [A47L13/03](#) take precedence)
- A47L13/08 . . with scraping blades
  
- A47L13/10 . Scrubbing; Scouring; Cleaning; Polishing
- A47L13/11 . . Squeegees
- A47L13/12 . . Implements with several different treating devices
- A47L13/14 . . combined with squeezing or wringing devices
- A47L13/142 . . . having torsional squeezing or wringing action
- A47L13/144 . . . having squeezing rollers
- A47L13/146 . . . having pivoting squeezing plates
- A47L13/16 . . Cloths; Pads; Sponges (metal scraping sponges [A47L13/07](#))
- A47L13/17 . . . containing cleaning agents ([A47L13/19](#) takes precedence; [N: chemical compositions [C11D17/04F](#)])
- A47L13/18 . . . Gloves; Glove-like cloths
- A47L13/19 . . . . containing cleaning agents
- A47L13/20 . . Mops
- A47L13/22 . . . with liquid-feeding devices
- A47L13/22B . . . . [N: Steam mops] [[N1204](#)]
- A47L13/23 . . . . connectable to the water mains
- A47L13/24 . . . . Frames for mops; Mop heads (handles [B25G](#))
- A47L13/25 . . . . Wire frames
- A47L13/252 . . . . . for mops of textile fringes or the like
- A47L13/253 . . . . . of adjustable or foldable type
- A47L13/254 . . . . . Plate frames
- A47L13/255 . . . . . for mops of textile fringes or the like
- A47L13/256 . . . . . for mops made of cloth
- A47L13/257 . . . . . for mops made of sponge material
- A47L13/258 . . . . . of adjustable or foldable type
- A47L13/26 . . Other cleaning devices with liquid supply arrangements (such arrangements on floor-polishing machines [A47L11/00](#), on scrapers [A47L13/03](#), on mops [A47L13/22](#); cloths, pads, or the like containing cleaning agents [A47L13/17](#), [A47L13/19](#))
  
- A47L13/28 . . Polishing implements (polishing machines [A47L11/02](#))
- A47L13/282 . . . mounted under footwear
- A47L13/284 . . . having fixed or detachable weights

- A47L13/286 . . . having containers for storing polishing material, e.g. polishing paper
- A47L13/29 . . . having movable or detachable polishing or shining cloths
- A47L13/294 . . . having invertible head, one side being used for dispensing polishing material and the reverse side for shining
- A47L13/30 . . . Implements for polishing and waxing or oiling, with dispensers for wax or oil
- A47L13/31 . . . . having movable or detachable polishing or shining cloths
- A47L13/312 . . . . . supplied with liquid wax or oil
- A47L13/314 . . . . having invertible head, one side being used for dispensing wax or oil and the reverse side for shining
- A47L13/316 . . . . . supplied with liquid wax or oil
- A47L13/32 . . . Wax dispensers with heating arrangements
- A47L13/34 . . Scouring implements for hearths or metal objects
- A47L13/36 . . Carpet-beaters
- A47L13/38 . . Other dusting implements [N: (using adhesive surfaces [A47L25/00A](#))]
- A47L13/40 . . Cleaning implements actuated by electrostatic attraction; Devices for cleaning same; Magnetic cleaning implements
- A47L13/41 . . . Magnetic cleaning implements
- A47L13/42 . . Details
- A47L13/44 . . . Securing scouring-cloths to the brush or like body of the implement
- A47L13/46 . . . Securing scouring or polishing cloths or sponges to the handles by gripping means, tongs, or the like
- A47L13/48 . . . Protective devices, such as bumpers or guard plates
- A47L13/50 . . Auxiliary implements ([cleaning devices for brushes or the like A46B17/06](#))
- A47L13/502 . . . Shakers for dust-cloths or mops; Bumpers therefor
- A47L13/51 . . . Storing of cleaning tools, e.g. containers therefor
- A47L13/512 . . . . Clamping devices for hanging the tools
- A47L13/52 . . . Dust pans; Crumb trays
- A47L13/54 . . . Racks for beating carpets
- A47L13/56 . . . Implements for applying wax or oil
- A47L13/58 . . . Wringers for scouring pads, mops, or the like, combined with buckets
- A47L13/59 . . . . with movable squeezing members
- A47L13/60 . . . . with squeezing rollers
- A47L13/62 . . . Kneeling supports, especially wheeled ([kneeling cushions attachable to knees A41D13/06](#))

**Guide heading:** **Cleaning or polishing household articles or the like**

#### **A47L15/00 Washing or rinsing machines for crockery or tableware**

- A47L15/00A . [N: Washing processes, i.e. machine working principles characterised by phases or operational steps] [C1112]
- A47L15/00A2 . . [N: Rinsing phases, e.g. pre-rinsing, intermediate rinsing, final rinsing] [N1112]
- A47L15/00A4 . . [N: Washing phases] [N1112]
- A47L15/00A6 . . [N: Drain phases, including initial, intermediate or partial draining phases] [N1112]

- A47L15/00A8 . . [N: Drying phases, including dripping-off phases] [N1112]
- A47L15/00A10 . . [N: other treatment phases, e.g. steam or sterilizing phase] [N1112]
- A47L15/00C . [N: Controlling processes, i.e. processes to control the operation of the machine characterised by the purpose or target of the control (for control of water softening or water softener regeneration [A47L15/42D](#); for control of water level [A47L15/42G](#); for control of bad smells or odours [A47L15/42K](#); for control of water temperature [A47L15/42N](#); for control of water pressure [A47L15/42P](#); for control of condition of crockery or tableware [A47L15/42V](#); for control of condition of washing water [A47L15/42W](#))] [N1112]
- A47L15/00C1 . . [N: Regulation of operational steps within the washing processes, e.g. optimisation or improvement of operational steps depending from the detergent nature or from the condition of the crockery] [N1112]
- A47L15/00C1A . . . [N: Water filling ([A47L15/42G](#) takes precedence)] [N1112]
- A47L15/00C1B . . . [N: Rinsing phases] [N1112]
- A47L15/00C1C . . . [N: Washing phases] [N1112]
- A47L15/00C1D . . . [N: Water discharge phases] [N1112]
- A47L15/00C1E . . . [N: Drying phases, including dripping-off phases] [N1112]
- A47L15/00C1F . . . [N: Steam or sterilizing phases] [N1112]
- A47L15/00C1G . . . [N: Filter cleaning phases] [N1112]
- A47L15/00C1H . . . [N: Desorption phases of reversibly dehydrogenated drying material. e.g. zeolite in a sorption drying system] [N1112]
- A47L15/00C2 . . [N: Operation time reduction] [N1112]
- A47L15/00C4 . . [N: Energy or water consumption, e.g. by saving energy or water] [N1112]
- A47L15/00C6 . . [N: Detection or prevention of malfunction, including accident prevention (arrangements to prevent clogging of filters [A47L15/42A6](#); safety arrangements for preventing water damage [A47L15/42B](#))] [N1112]
- A47L15/00C8 . . [N: Noise reduction] [N1112]
- A47L15/00C10 . . [N: Metering or indication of used products, e.g. type or quantity of detergent, rinse aid or salt; for measuring or controlling the product concentration] [N1112]
- A47L15/00C12 . . [N: Cleaning of machines parts, e.g. removal of deposits like lime scale or proteins from piping or tub] [N1112]
- A47L15/00C14 . . [N: using wireless communication between internal components of the machine] [N1112]
- A47L15/00C16 . . [N: using remote monitoring or controlling of the dishwasher operation, e.g. networking systems] [N1112]
- A47L15/00D . [N: specially adapted for drinking glasses]
- A47L15/00D2 . . [N: with brushes or similar scraping members]
- A47L15/00D4 . . [N: the glasses being placed on conveyers]
- A47L15/00D4B . . . [N: of the rotary table type]
- A47L15/00E . [N: of non-domestic use type, e.g. commercial dishwashers for bars, hotels, restaurants, canteens or hospitals (machines specially adapted for drinking glasses [A47L15/00D](#); drawer-type dishwashers [A47L15/00E](#); in-sink dishwashers [A47L15/00G](#); miniature dishwashers [A47L15/00J](#); conveyer-type dishwashers [A47L15/24](#); machines with crockery cleaned by brushes [A47L15/37](#))] [N1105] [C1107]
- A47L15/00E4 . . [N: with a plurality of fluid recirculation arrangements, e.g. with separated washing liquid and rinsing liquid recirculation circuits] [N1107]

- A47L15/00E6 . . [N: with vertical sliding closing doors, e.g. hood-type dishwashers] [N1105] [C1112]
- A47L15/00F . [N: of drawer-type] [N1105]
- A47L15/00G . [N: In-sink dishwashers] [N1107]
- A47L15/00J . [N: of small size, e.g. portable mini dishwashers for small kitchens, office kitchens, boats, recreational vehicles (specially adapted for drinking glasses [A47L15/00D](#))] [N1107]
- A47L15/00K . [N: specially adapted to wash large items like pots, trays, baking trays, cooking grids] [N1107]
- A47L15/00L . [N: cleaning with abrasive solid particles, e.g. by blasting the crockery with liquid containing granules] [N1112]
- A47L15/00N . [N: Combination of dishwashers with other household appliances] [N1112]
- A47L15/02 . with circulation and agitation of the cleaning liquid in the cleaning chamber containing a stationary basket [N: (for drinking glasses [A47L15/00D](#))]
- A47L15/04 . . by reciprocating movement of the cleaning chamber
- A47L15/06 . . by means of an impeller in the chamber
- A47L15/08 . . by application of a pressure effect produced by pumps
- A47L15/10 . . by introducing compressed air or other gas into the liquid
- A47L15/12 . . by a boiling effect
- A47L15/13 . . using sonic or ultrasonic waves
- A47L15/14 . with stationary crockery baskets and spraying devices within the cleaning chamber [N: (for drinking glasses [A47L15/00D](#))]
- A47L15/16 . . with rigidly-mounted spraying devices
- A47L15/18 . . with movably-mounted spraying devices
- A47L15/20 . . . Swingable spraying devices
- A47L15/22 . . . Rotary spraying devices
- A47L15/23 . . . . moved by means of the sprays
- A47L15/24 . with movement of the crockery baskets by conveyers [N: (for drinking glasses [A47L15/00D4](#))]
- A47L15/24B . . [N: the dishes moving in a horizontal plane]
- A47L15/24B2 . . . [N: in a closed loop]
- A47L15/24B2B . . . . [N: with conveyers of the rotary table type]
- A47L15/24B4 . . . [N: the dishes being placed directly on the conveyers, i.e. not in dish racks ([A47L15/24B2](#) takes precedence)]
- A47L15/24C . . [N: the dishes moving in a vertical plane, e.g. in a closed loop]
- A47L15/24D . . [N: Details specific to conveyer-type machines, e.g. curtains] [M1107]
- A47L15/24D2 . . . [N: relating to the conveyers]
- A47L15/26 . with movement of the crockery baskets by other means [N: (for drinking glasses [A47L15/00D](#))]
- A47L15/28 . . by lowering and lifting only

- A47L15/30 . . . by rotating only
- A47L15/32 . . . . rotated by means of spraying water
- A47L15/33 . . . . with moving baskets submerged in the cleaning fluid
- A47L15/34 . . . by lowering and lifting combined with a rotating movement
- A47L15/36 . . . by a sideways motion
  
- A47L15/37 . with crockery cleaned by brushes [N: (for drinking glasses [A47L15/00D2](#))]
- A47L15/39 . . with brushes on movable supports
  
- A47L15/42 . Details [M1107]
  - [N: **Notes**[N1105]
  - Details specific to a particular type of dishwasher should also get a classification symbol for the relevant type of dishwasher ]
  
- A47L15/42A . . . [N: Water filter means or strainers] [C1105]
- A47L15/42A2 . . . . [N: Flat filters] [N1105]
- A47L15/42A4 . . . . [N: Tubular filters] [N1105]
- A47L15/42A6 . . . . [N: Arrangements to prevent clogging of the filters, e.g. self-cleaning] [N1105]
- A47L15/42B . . . [N: Safety arrangements for preventing water damage] [N0208]
- A47L15/42B4 . . . . [N: Detection of water leaks; Collection of leaked water, e.g. in the casing] [N1105]
- A47L15/42C . . . [N: Water supply, recirculation or discharge arrangements; Devices therefor] [C1107]
- A47L15/42C2 . . . . [N: Fittings for water supply, e.g. valves or plumbing means to connect to cold or warm water lines, aquastops] [N1107]
- A47L15/42C4 . . . . [N: Water recirculation ([A47L15/00E4](#) takes precedence)] [N1107]
- A47L15/42C4B . . . . . [N: Arrangements for redirection of washing water, e.g. water diverters to selectively supply the spray arms ([A47L15/00E4](#) takes precedence)] [N1107]
- A47L15/42C6 . . . . [N: Devices for water discharge, e.g. devices to prevent siphoning, non-return valves] [N1107]
- A47L15/42C8 . . . . [N: Arrangements or adaption of recirculation or discharge pumps] [N1107]
- A47L15/42C8B . . . . . [N: with macerator arrangements for chopping entrained food particles] [N1107]
- A47L15/42D . . . [N: Water softening arrangements] [C1112]
- A47L15/42D2 . . . . [N: Constructional details of the salt container or the ion exchanger]
- A47L15/42E . . . [N: Steam generating arrangements] [N1107]
- A47L15/42F . . . [N: Arrangements to sterilize or disinfect dishes or washing liquids ([A47L15/42E](#) takes precedence)] [N1107]
- A47L15/42F2 . . . . [N: by using electrolytic cells] [N1107]
- A47L15/42F4 . . . . [N: by using ozone] [N1107]
- A47L15/42F6 . . . . [N: by using ultraviolet generators] [N1107]
- A47L15/42G . . . [N: Water-level measuring or regulating arrangements] [N1107]
- A47L15/42I . . . [N: Details of the tub ([A47L15/42J10](#) takes precedence)] [M1107]
- A47L15/42I2 . . . . [N: Arrangements for dividing the tub compartment, e.g. for simultaneous washing of delicate and normal crockery] [N1112]
- A47L15/42J . . . [N: Details of the casing (collecting leaked water in the casing for preventing water

- damage [A47L15/42B4](#)) [N0208] [C1105]
- A47L15/42J2 . . . [N: Supporting arrangements for the casing, e.g. rollers or supporting legs] [N1105]
- A47L15/42J4 . . . [N: Insulation arrangements, e.g. for sound damping or heat insulation] [N1105]
- A47L15/42J6 . . . [N: Details of the loading door] [N1105]
- A47L15/42J6A . . . . [N: Arrangements of locking or security/safety devices for doors, e.g. door latches, switch to stop operation when door is open] [N1105]
- A47L15/42J6B . . . . [N: Connections of the door to the casing, e.g. door hinges] [N1105]
- A47L15/42J6C . . . . [N: Door sealing arrangements] [N1105]
- A47L15/42J6D . . . . [N: Arrangements of door covering/decoration panels or plinths, e.g. for integrated dishwashers] [N1105]
- A47L15/42J8 . . . [N: Arrangements for transporting or moving, e.g. stiffening] [N1105]
- A47L15/42J9 . . . [N: Arrangements for setting the machine, e.g. anti-tip devices therefor, fixing of integrated machines] [N1105]
- A47L15/42J10 . . . [N: Supporting arrangements for the tub] [N1105]
- A47L15/42J12 . . . [N: Arrangement of electrical components, e.g. control units or cables ([A47L15/42S](#) takes precedence)] [N1105]
- A47L15/42K . . [N: Arrangements to detect or remove bad smells or odours] [N1107]
- A47L15/42L . . [N: Nozzles] [N1112]
- A47L15/42L2 . . . [N: Rotary nozzles] [N1112]
- A47L15/42L4 . . . [N: Arrangements to change or modify spray pattern or direction] [N1112]
- A47L15/42M . . [N: Water-heater arrangements ([Steam generating arrangements A47L15/42E](#))] [M1107]
- A47L15/42N . . [N: Temperature measuring or regulating arrangements] [M1107]
- A47L15/42P . . [N: Spray-pressure measuring or regulating arrangements ([nozzles A47L15/42L](#))] [C1112]
- A47L15/42R . . [N: Recovery arrangements, e.g. for the recovery of energy or water] [N0208]
- A47L15/42S . . [N: Arrangements for programme selection, e.g. control panels; Indication of the selected programme, programme progress or other parameters of the programme, e.g. by using display panels] [N0208] [M1105]
- A47L15/42V . . [N: Arrangements for detecting or measuring the condition of the crockery or tableware, e.g. nature or quantity] [N0208]
- A47L15/42W . . [N: Arrangements for detecting or measuring the condition of the washing water, e.g. turbidity] [N0208]
- A47L15/44 . . Devices for adding cleaning agent; [N: Devices for dispensing cleaning agents, rinsing aids or deodorants] [C1112]
- A47L15/44A . . . [N: by tipping containers or opening their lids, e.g. with the help of a programmer]
- A47L15/44B . . . [N: in the form of liquids ([A47L15/44A](#), [A47L15/44C](#), [A47L15/44D](#) take precedence)]
- A47L15/44B2 . . . . [N: entrained in the water supply line by a pressure drop, e.g. resulting from a Venturi throat]
- A47L15/44C . . . [N: in the form of a detergent solution made by gradually dissolving a powder detergent cake or a solid detergent block]
- A47L15/44D . . . [N: Detachable devices] [C1112]
- A47L15/44D2 . . . . [N: with automatic identification means, e.g. barcodes, RFID tags or magnetic strips] [N1112]

- A47L15/44F . . . [N: Multi-dose dispensing arrangements] [N1112]
- A47L15/44G . . . [N: Blister packaging or refill cartridges] [N1112]
- A47L15/44H . . . [N: Deodorants, perfumes or odor removals ([A47L15/42K](#) takes precedence)] [N1112]
- A47L15/44J . . . [N: Metering controlling devices ([A47L15/42D](#) takes precedence)] [N1112]
- A47L15/46 . . Devices for the automatic control of the different phases of cleaning; [N: Controlling devices ([A47L15/44J](#) takes precedence)] [C1112]
- A47L15/48 . . Drying arrangements
- A47L15/48A . . . [N: by using water absorbent materials, e.g. Zeolith] [N1105]
- A47L15/48B . . . [N: by using condensers] [N1105]
- A47L15/48C . . . [N: by using alternative heat sources, e.g. microwave or infrared] [N1105]
- A47L15/48D . . . [N: Blower arrangements] [N1105]
- A47L15/48E . . . [N: Connections of the tub with the ambient air, e.g. air intake or venting arrangements] [N1105]
- A47L15/50 . . Racks [C1105]
- A47L15/50B . . . [N: Baskets, e.g. for conveyer-type, in-sink type or hood-type machines] [N1105]
- A47L15/50C . . . [N: Cutlery baskets] [N0209]
- A47L15/50F . . . [N: with foldable parts] [N0209]
- A47L15/50H . . . [N: Arrangements for changing the height of racks] [N0209]
- A47L15/50J . . . [N: Inserts, e.g. for holding baby bottles, stemware or cups] [N1105]
- A47L15/50L . . . [N: Arrangements for lifting racks for loading or unloading purposes] [N0209]
- A47L15/50R . . . [N: Arrangements for extracting racks, e.g. roller supports] [N0209]
- A47L15/50S . . . [N: Hydraulic connections for racks] [N0209]

**A47L17/00 Apparatus or implements used in manual washing or cleaning of crockery, table-ware, cooking-ware or the like (foam-making devices [A47K5/14](#))**

- A47L17/02 . Basins (dish-washing tables [A47B33/00](#); sanitary basins [A47K1/04](#); basins connected to waste pipe [E03C1/12](#))
- A47L17/04 . Pan or pot cleaning utensils
- A47L17/06 . . Scrapers
- A47L17/08 . . Pads; Balls of steel wool, wire, or plastic meshes
- A47L17/10 . Tongs for crockery

**A47L19/00 Drying devices for crockery or table-ware, e.g. tea-cloths**

- A47L19/02 . Draining-boards
- A47L19/04 . Crockery baskets; Draining-racks

**A47L21/00 Polishing of table-ware, e.g. knives, forks, spoons**

- A47L21/02 . Machines

- A47L21/04 . Hand implements
- A47L21/06 . Supports or rests for use while polishing
- A47L23/00           Cleaning footwear**
- A47L23/02 . Shoe-cleaning machines, with or without applicators for shoe polish
- A47L23/04 . Hand implements for shoe-cleaning, with or without applicators for shoe polish  
(ordinary brushes, with or without containers, [A46B11/00](#))
- A47L23/05 . . with applicators for shoe polish
- A47L23/06 . . with electric drive
- A47L23/08 . . Special hand implements for cleaning and recolouring footwear, e.g. powder pads
- A47L23/10 . . Cloth or collapsible cleaning pads; Glove-like cleaning cloths ([glove-like washing cloths A47K7/02](#))
- A47L23/12 . . Cleaning devices for suede
- A47L23/14 . . Implements for use during shoe-cleaning, to guard against spoiling
- A47L23/16 . Shoe-shine stands; Foot-rests with guides for the polishing cloths
- A47L23/17 . . Foot-rests with guides for the polishing cloths
- A47L23/18 . Devices for holding footwear during cleaning or shining ([shoe-lasts A43D3/00](#));  
Holding devices with stretching effect
- A47L23/20 . Devices or implements for drying footwear, also with heating arrangements ([cabinets for shoes A47B61/04](#))
- A47L23/20B . . [N: with heating arrangements]
- A47L23/22 . Devices or implements resting on the floor for removing mud, dirt, or dust from  
footwear ([built-in gratings, e.g. foot-scrapers, E04F19/10](#))
- A47L23/24 . . Rigid cleaning-gratings; Tread plates or scrapers for cleaning the soles of footwear  
([floor mats in general A47G27/02](#))
- A47L23/26 . . Mats or gratings combined with brushes; [N: Mats]
- A47L23/26B . . . [N: with moving or driven parts, also combined with suction cleaning]
- A47L23/26C . . . [N: Mats]
- A47L23/28 . Receptacles for shoe-cleaning equipment
- A47L25/00           Miscellaneous cleaning devices (for cleaning spectacles [G02C13/00](#))**
- A47L25/00A . [N: using adhesive or tacky surfaces to remove dirt, e.g. lint removers]
- A47L25/02 . for buttons, clasps, or military insignia
- A47L25/04 . for door-knobs
- A47L25/06 . Guard plates for use while cleaning butts, door-knobs, or the like

[A47L25/08](#) . Pads or the like for cleaning clothes [N: (using adhesive surfaces [A47L25/00A](#))]

[A47L25/12](#) . Devices or implements for cleaning lamp chimneys