### Processes

1. Including application of electrical radiant or wave energy to work

1.1 Plasma cleaning

1.2 Semiconductor cleaning

1.3 Semiconductor cleaning

2. For metallic, siliceous, or calcareous basework, including chemical bleaching, oxidation or reduction

3. Including acidic agent

4. Including forming a solidified or hardened coating for cleaning

5. Including melting

6. Using solid work treating agents

7. In particulate or comminuted form

8. Hollow work, internal surface treatment

9. Longitudinally traveling work, of bar, strip, strand, sheet or web form

10. Including regeneration, purification, recovery or separation of agent used

11. Gas or vapor form agent condensed or absorbed on work

12. By distilling, or liquefying vapors of, used agent

13. By crystallizing, precipitating, or eliminating dissolved solids from used agent

14. Work in coiled form during treating agent application

15. Longitudinally traveling work of bar, strip, strand, sheet or web form

16. Including distortion or deformation of work

17. Produced by temperature change, centrifugal force, or fluid pressure shock

18. Combined (e.g., automatic control)

19. Including work heating or contact with combustion products

20. Carbon removal (e.g., from engines)

21. Including use of vacuum, suction, or inert atmosphere

22.1 Hollow work, internal surface treatment

22.11 Pipe, tubing, hose, or conduit

22.12 ...With pressurized fluid or fluid manipulation

22.13 ...With inorganic alkaline material treating agent

22.14 ...With organic treating agent (e.g., solvent, surfactant, or reactant yielding soluble product, etc.)

22.15 ...With steam utilization

22.16 ...With inorganic salt treating agent

22.17 ...With inorganic alkaline material treating agent

22.18 ...With pressurized fluid or fluid manipulation

22.19 ...With organic treating agent (e.g., solvent, surfactant, or reactant yielding soluble product, etc.)

23. Work or work parts movable during treatment

24. Movable fluid applying nozzle and/or with plugging or sealing of work passage or opening

25.1 Work handled in bulk or groups

25.2 Kitchen or tableware

25.3 Food

25.4 Manufactured articles

25.5 Work stationary or moved countercurrently

26. Using sequentially applied treating agents

27. One a neutralizer for another

28. One an acid or an acid salt

29. One a soap or an alkaline agent

30. Including steam, gaseous agent or temperature feature

31. Gas or vapor condensation or absorption oowork

32. With work or work parts movable during treatment

33. Centrifugal force and/or rotated work body

34. With treating fluid motion

35. Caused by heating

36. Plural, separately fed, and either simultaneously applied or admixed, treating fluids

37. Gas or vapor blasts or currents

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Paints, varnishes, lacquers, or enamels, removal

Carbon removal

Oils, grease, tar, or wax removal, by dissolving

Metal base work, acid treating

Miscellaneous

APPARATUS

With relatively movable finder and orienter of apertures or passages in work

Operating or controlling device engaged and moved by work or separate work holder

For vehicle or wheel-form work

Devices other than valves (e.g., automatic work counters)

Pumps

Endless belt or rotary work carriers

Through-way work carriers or guides

Plural means to supply or apply plural different fluids separately or admixed

With means for moving work or work-holder by fluid impact thereagainst

Engaging element having rotary swinging, rocking or pivoted motion

External and internal fluid applying means

External and internal fluid applying means

External applying jet means

Automatic controls

With electric control

Dishwashing machine

....With door latch control feature

Dishwashing machine

Electrically controlled

Dishwashing machine

....With door latch control feature

With work assembling or disassembling means

With interstation fluid flow means

Sequential work treating receptacles or stations with means to transfer work or fluid-applying devices

With initial work emptying, inverting, orienting or puncturing means

With means for treating work other than with fluids, draining or heating

For sheet, web, strand or bar form work, longitudinally traveling

....Photographic

....With screw work conveyor

....With work transfer from one movable carrier to another

....Including endless belt type

....With splash, spray or jet applying means

....Between plural rotary carriers on same axis

....With endless belt work transfer means

....Horizontal axes

....With splash, spray or jet applying means

.....With work immersing means

.....With separate movable means to cause fluid motion

....Sequential endless-carrier immersing means

Traversing hoist-type work transfer means

....Curved or non-rectilinear traverse work-path

....With rotary or swinging work transfer means

....Axially rotary

....Turntable type

.....With synchronized or coordinate valve

....With guide rails, rods or beams for work or work holders

....Vertical, inclined, curved or movable or with rollers or work immersion means

Plural, separate, work treating or holding receptacles or stations; manual transfer type

....With movably mounted work holder or receptacle

....For motion during fluid application
87 ....Plural, mutually counterbalancing work supports
88 ..With fluid supplying or movable applying means
89 ...With movable means to cause fluid motion
90 ...With heater or heat exchanger
91 ...With valved liquid drain from one or more stations
92 ...With detachable work holder or receptacle
93 .With solid agent dissolving or supplying means
94.1 .With plural means for supplying or applying different fluids at the same workstation
95.1 ..Means for sequentially applying different fluids
95.2 ...With drying means
95.3 ...Fluid spraying means
96.1 ..With nonimpelling plural way liquid outlet (e.g., two way valve) or nonimpelling liquid outlet control coordinated with other control control coordinated with other control
97.1 ..Coordinated inlet nonimpelling control and noninlet control
98.1 ..With coordinated or multiple valves
99.1 ..Plural fluids applying conduits
99.2 ...With means for supplying an additive (e.g., liquid detergent)
100.1 ...With means for mixing or contacting fluids with each other before applying them
102.1 ....Having steam, air or gas applying conduit
102.2 .....With pressurized air or gas supplying means for fluid movement
102.3 .....With drying means
103.1 ..Having means for recirculating or reversing fluid flows
103.2 ..Fluid spraying means
103.3 ..Movable
104.1 .Having self cleaning means
104.2 .With means for collecting escaping material
104.3 ..Cleaned material
104.4 ..Foreign material separated from liquid
105 ..With heating, cooling or heat exchange means
106 ..With heat-generatable liquid-flow pressure means
107 ..Heat-exchange means external to work-treating chamber, vat or zone
108 ..Recirculation of treating liquid through conduit means
109 ..With treating fluid purifying or separating means
110 ..By filter or strainer only (except work-spraying head)
111 ...With liquid-moving recirculation, or flow reversing, and straining means
112 ..With brake or clutch
113 ..With alarm, signal, indicating, testing, inspecting, illuminating or display means
114 ..With liquid seal
115 R ..Combined or convertible
115 G ..With garbage grinder
116 ..With means to operate movably interconnected parts of work
117 ..Movably mounted fluid-holding receptacles
118 ..Rocking or rolling, bottom supported or shifting axis
119 ..Rotary or swinging motion
120 ...Horizontal axis only
121 ...Vertical axis only
122 R ..For sheet, web, strand or bar form work, longitudinally traveling
122 P ..Photographic
123 ..For vehicle or wheel form work
124 ..With endless belt work conveyer
125 ..With guide rails for work or work holder (not for belt)
126 ..With non-endless-belt work conveyer or manipulator
127 ..With plural endless belts
128 ..With means to release work held on belt
129 ..With movably mounted spray or jet applying conduits or nozzle and/or interconnected conveyer and valve
130 ..With separate movable means to cause fluid motion (e.g., pump, splasher, agitator)
131 ..With spray or jet applying conduits or nozzles
132 ..Spiral work path and/or spiral work conveyer (e.g., screw)
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. With work feeding and/or discharging means
. Rotary, swinging or pivoted, work support feeding or discharging conveyers (except mere gates or stops)
. With means to hold work holder in draining position above treating liquid
. Work holder in form of valved plunger
. With means to movably mount or movably support the work or work support
. Movably mounted work holder operable by fluid contact
. With separate movable splasher or pump
. Motor operated apparatus
. Fluid motor or turbine
. Movably support having plural work holders movably mounted thereon (e.g., ferris-wheel type)
. Interconnected tank closure and other movable element
. With movably mounted spray or jet applying conduits or nozzles
. Immovably mounted on movable work support
. Interconnected movable work support and valve
. With movably work support and separate movable means to cause fluid motion (e.g., pump, splasher, agitator)
. And spray or jet applying conduit or nozzle
. Axially rotary chuck, mandrel, rod or axle type holder
. Work of container-form constituting sole liquid holder
. With spray or jet applying conduits or nozzles
. For work having hollows or passages
. Rotary, pivoted or swinging work holder
. With non-impelling fluid deflector or baffle
. With means to drain from or supply liquid to the tank

.. Work support having a float and/or swing drive or bias
.. Rotary, revolving, swinging or oscillating motion work holder or carrier
.. With plural work receiving chambers or holders and/or with cover carried by work receiving chamber
... Horizontal axis
... Carried by pivotally mounted links or levers or by strands
... Compound motion
... Actuating means extending through or carried by tank cover
... With liquid impeller mounted on work support
... Work support reciprocated by pivot links or lever or by strands
... Rail or rod form guides for work or work holder
. For work having hollows or passages
... With movably or flexibly mounted spray or jet applying conduits or nozzles
... With movable means to cause fluid motion (e.g., pumps)
.... Conduit cleaner
... Conduit cleaner
... With movable means to cause fluid motion (e.g., pumps, followers)
... Automotive parts cleaner
... Conduit cleaner
... With means to apply fluids both internally and externally
... With plural fluid-supplying pipes
... Conduit cleaner
... With movably or flexibly mounted spray or jet applying conduits or nozzles
... As pump or element thereof
... With separate pump, splasher or agitator
... Conduit or nozzle attached to or operatively interconnected with treating chamber closure
... With fluid discharge reaction nozzle
..Attached to or operatively interconnected with treating chamber closure
..Coordinated with valve therefor
..Fluid discharge reaction nozzle
..With guiding means to restrict motion to rotation, to swinging, or to an annular closed or to a curved path
...With motor therefor
...With non-impelling fluid deflector or baffle other than conduits or nozzles
..Movably mounted, adjustable or removable
..With movable means to cause fluid motion (e.g., pump, splasher, agitator)
..Compound motion
..With means to drain from and/or supply liquid to tank
..Pivoted (e.g., rotary swinging or oscillating)
...Motor operated
...Movable in annular path that surrounds work-space
...Delivering fluids to work-space through annular, work-space-surrounding conduit
...Delivering to conduits or nozzles
...Actuating means extending through or carried by tank cover
...Plural fluid-moving means (excludes single with plural vanes)
...About horizontal axis
...Through or one-way fluid flow pumps
...Vertically reciprocable (e.g., dashers)
...Actuating means carried by or extending through tank cover
..With spray or jet supplying and/or applying means
..Work circumposable or opposed fluid-applying jets or plural pipes
..With closable work-treating chambers
.Misellaneous

CROSS-REFERENCE ART COLLECTIONS

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FOR 000 CLASS-RELATED FOREIGN DOCUMENTS