

HEATING STOVE.—William H. Landon, of Princeton, Canada.—This invention consists of a combination of an interior fire shell and a damper with that class of stoves comprised mainly of a horizontal elliptical shell with its major axis in a vertical plane, in such manner as is claimed to greatly economize the heat. It also consists of a novel arrangement of ventilating damper. The stove is composed of two end plates of cast iron, of an oval form, the front one having an extension forming a hearth and ash pit, and near the bottom of the hinder one is an opening for a ventilating damper, and also for removing any ashes which may be deposited within the hot air space. On the inner side of these plates, near their edges, a groove is formed in the casing to receive the outer shell, which is made of Russia or other suitable sheet iron. Within the latter there is another parallel groove, extending about three fourths the distance around the stove, to receive the inner shell or fire plate. The space between the shells, which is called the flame flue, is about two inches, more or less. The inner shell or fire plate commences about the center, vertically, of one side, and, curving downward under the fire chamber, upward along the opposite side, terminates at the center of the top, where it is made, by means of a sharp reverse curve, to touch the outer shell, and also to divide the pipe hole into two equal parts. A semicircular damper is placed here, with its crank shaft lying parallel with and touching the top of the fire plate, outside the pipe. This damper, turned in one direction, closes the direct communication between the fire chamber and smoke pipe, and forces the flame into the flame flue and around the shell. When turned in the other direction, such connection is direct, and a strong draft is obtained for kindling the fire or quickening the combustion. The ventilating damper is cast upon a shoe which fits the curve of the shell, on which it rests, and keeps the damper in position.

FERTILIZER.—James Fox and Andrew Fox, of Avoca, N. Y.—An ordinary farm wagon has one of the wheels provided with a belt rim. A long hopper or trough, such as commonly employed on machinery for sowing plaster, is provided with an agitator, a pulley for driving it by a crank, said pulley being worked by a belt, driven by the rim of the wagon wheel, and the crank being connected with said pulley by means of a disk and a shaft. The trough is suspended from the box of the wagon at the under side between the wheels transversely by means of balls, hooked rods and a cross bar, resting on the top, and extending across it and beyond the sides at each end. The hooked rods pass up through holes in the cross bar, and are held by nuts at the top. The trough is provided with pieces on the top, to be held snugly against the bottom, for steadying it; or the said pieces may rise up between or outside of the side boards, close to them, as preferred. In addition to the central vertical rods of the agitator, bent V shaped rods work near the surface of the sides of the hopper to prevent the plaster clogging them; the said ends being connected to the said sides at the upper ends, and operated by suitable mechanism. The trough is provided with a slide at the bottom for regulating the feed, said slide being provided with screws for working it.

WINDOW SASH SUPPORTER.—Ralph L. Young, of Topeka, Kansas.—The window frame has boxes on each side. Spiral springs are securely attached to the frame at the top of the boxes at their upper ends, and to guide blocks at their lower ends. The inner portion of the boxes is slotted, and a portion of each of the blocks projects through the inner portion of the boxes and into the sash grooves. This portion engages with the sashes by entering a recess or cavity therein. The outer portion of the boxes is grooved, and the blocks have shoulders by which they are kept in the slots and grooves as the sashes are worked up and down. This arrangement is very simple and cheaply made. The springs are claimed to be much more durable than cords, and they work noiselessly.

[OFFICIAL.]

Index of Inventions

For which Letters Patent of the United States were granted FOR THE WEEK ENDING MARCH 26, 1872, AND EACH BEARING THAT DATE.

Animal matters, treating, M. J. Stein..... 125,111, 125,112
Animal and vegetable substances, drying and curing, M. J. Stein..... 124,982
Auger, H. Pitcher..... 125,076
Bag clasp, traveling, E. W. Chapman..... 124,934
Bales, hay, straw, and other, L. Dodge..... 125,031
Barrel heads, machine for cutting, J. B. Stanhope..... 124,917
Bed bottom and sofa, spring, W. D. Adams..... 124,927
Bedstead, sofa, W. Walcutt..... 124,980
Bee hive, H. A. King..... 124,962
Bell, call, H. A. Dierkes..... 125,029
Blackening and brush holder, E. H. Sweetzer..... 124,984
Boats, method of detaching, L. H. Watson..... 124,923
Boats, etc., apparatus for steering torpedo, J. G. Foster..... 125,039
Boot and shoe, T. T. Hartford..... 125,047
Boiler feeder, automatic, D. Vaughn..... 124,921
Boiler feeder, automatic steam, J. Wheelock..... 125,106
Boiler, water tube steam, C. G. Beitel..... 124,929
Boiler for ranges and other cooking apparatus, back log, B. Hunter..... 124,899
Bowls, lamps, etc., to their stands, attaching, S. S. Barrie..... 125,002
Box, R. B. Davis..... 125,028
Boxes, manufacture of, A. N. Allen..... 124,997
Brace and suspender combined, shoulder, Pratt and Whitney..... 124,913
Braiding machine, J. D. Butler..... 124,882
Brick machine, G. C. Bovey..... 125,012
Brick machine, Phillips and Williams..... 125,075
Brush, whisk, H. S. Blunt..... 125,010
Buckle, trace, J. Lindsey..... 125,060
Burner, gas, S. Gardner..... 125,042
Burner, hydrocarbon, S. J. Whiting..... 124,993
Camera, solar, Dille and Poston..... 125,030
Car axle, J. W. Hard..... 125,046
Car stock, Z. Street..... 125,097
Car brake and starter, C. M. Hinckley..... 125,049
Cars, brake for railway, Tatzel and Kinn..... 124,985
Carbureting air, apparatus for, G. Reznor..... 125,085
Card, cattle, W. M. Warren..... 124,991
Carriage wheel, M. Johnson..... 125,053
Carriage tires, device for tightening, J. B. West (reissue)..... 4,836
Carriage wheels, to their axles, attaching, W. Elder (reissue)..... 4,830
Carriage wheels, method of securing tires to, P. D. Crosby..... 124,937
Carriages, handle for children's, R. G. Elder (reissue)..... 4,823
Cartridge box, J. Miller..... 125,069
Case, rotary show, T. E. Wood..... 125,109
Centrifugal machine for draining sugar, etc., A. Fesca..... 125,036
Churn, A. J. Cox..... 124,883
Churns, apparatus for operating, D. W. Ketcham..... 124,900
Cigar mold, J. Baxter..... 125,005
Clamp, line, W. A. Ford..... 125,038
Clocks, multiple time dial for, J. F. Niehaus..... 124,073
Cloth, instrument for folding, M. Moschowitz..... 124,968
Clothes pin, R. W. Huston..... 124,955
Cock, valve, P. C. Rowe..... 125,086
Cock, conical stop, J. E. Jones..... 124,959
Collar, shirt, V. N. Taylor..... 124,920
Composition for coloring leather, L. C. May..... 124,965
Compound for writing fluid, I. Popper..... 125,077
Compound, deodorizing and fertilizing, J. M. Loewenstein..... 124,901
Compound for hardening bar iron, F. E. Blake..... 125,009
Cooking apparatus, back log boiler for ranges and other, B. Hunter..... 124,899
Cord, double stretching strands of banding, T. Unsworth..... 124,988
Corset, children's, Emery and Fuller..... 124,891

Corset, skirt supporting, L. H. Foy, (reissue)..... 4,881
Crib, corn, C. B. Clark..... 125,021
Crib, children's, D. Cox..... 124,884
Crib, folding, A. J. Bettridge..... 124,877
Cultivator, C. Warner..... 124,922
Cultivator, J. W. Spangler..... 125,098
Cultivator, cotton, N. F. Sandelin..... 125,087
Cultivator and potato digger, J. G. Lacy..... 125,057
Derrick, H. S. Blood..... 124,878
Digger, potato, W. Starkey..... 125,094
Dough mixer, A. E. Muth..... 125,072
Drawing board, L. F. Schwenkel..... 125,089
Dredging machine, sand, J. T. Clarkson..... 125,033
Dress goods holder, A. S. Grant..... 124,948
Dryer, Foote and Smith..... 124,944
Dryer, lumber, E. J. Sumner..... 125,098
Drying fruits, etc., F. H. Smith, (reissue)..... 4,834
Electric belt for the body, J. E. Bazault..... 125,006
Electromagnetic apparatus, J. W. Powell..... 125,073
Elevator, M. Hanford..... 124,952
Engine, reciprocating steam, Shepherd and Clark..... 124,980
Engines, valve for steam, J. Watson..... 125,105
Engines, utilizing the exhaust steam of, E. Körting..... 125,056
Epergues for fruits and flowers, S. S. Barrie..... 125,003
Fabric, pile, G. Crompton..... 124,026
Fare box, portable, J. C. Schooley..... 125,088
Fastener for leather, metallic, H. Beals..... 125,007
Fat, etc., process and apparatus for rendering, M. J. Stein..... 124,983
Fence, L. Moore..... 125,071
Fertilizers, etc., treating sewage for, H. H. Parish..... 125,074
Fertilizing materials from earth, etc., preparing, S. Brown..... 125,017
File, paper, L. P. Keech..... 124,961
Fire extinguisher, T. J. Martin..... 125,063
Fire arm, breech loading, E. Whitney..... 124,994
Fires, apparatus for extinguishing, H. Baker..... 124,875
Flaming machine, G. A. Bowers..... 124,879
Furnace dead plate, A. C. Rand..... 125,080
Game, J. M. Rix..... 124,915
Gas tube support, flexible, A. Honsinger..... 124,897
Gas, apparatus for manufacture of coal, A. M. Giles..... 125,043
Glass ware, mold for, J. H. Reighard..... 125,083
Governor for steam engines, Reynolds and Herreshoff..... 125,084
Grate, stove, B. Franklin..... 125,040
Grate bar, furnace, W. Mellor..... 124,966
Grinder, stock, E. T. Marble..... 124,903
Guard and brush holder, paint, W. T. Bailey..... 124,928
Gun lock, J. C. Dane..... 124,939
Hair restorative, S. M. McNett..... 125,086
Harness pad, J. H. Van Ripper..... 125,101
Harness, metallic layer loop for, R. J. Algeo..... 124,996
Harvester, Ray and Shalters, (reissue)..... 4,824, 4,825, 24,973
Heater, car, C. F. Pike..... 24,973
Heater, cotton seed, W. M. Force..... 124,945
Hides, tanning, Carter and Keith..... 125,020
Hoisting apparatus, N. S. McFarland..... 125,064
Hold back, G. F. De Vine..... 124,888
Horses, apparatus for checking, S. S. Ingalls..... 125,052
Hose, waterproof, T. L. Reed..... 124,914
House, drying, J. J. Allen..... 124,998
House, brick drying, G. C. Bovey..... 125,013
Ice cream freezer, T. Weaver..... 124,992
Iron, sad, J. H. Vall..... 125,100
Iron, manufacture of sheet, D. L. Pratt..... 125,079
Jack, lifting, S. McGuffin..... 125,065
Knife cleaner and sharpener, Houmann and Nielson..... 125,050
Knitting machine, H. Guenther..... 124,950
Knobs, rose for door, E. A. Craw..... 124,936
Ladders, combined splice and safety hook for, J. Edmunds..... 124,940
Lamp, E. L. Lambie..... 125,058
Lamp chimney, W. Sedgwick..... 125,090
Last, shoe, W. J. E. Mills, (reissue)..... 4,888
Latch, cupboard, Sparry and Bradford..... 124,981
Latch, reversible, A. D. Judd..... 124,960
Letters on the circumference of metal disks, forming, S. M. Ott..... 124,970
Lifting machine, T. S. Crane..... 124,885
Light, buoy, L. Stevens..... 125,096
Lock for pianos, T. Powers..... 124,912
Locks, key hole guard for, J. M. Alden..... 124,874
Loom shuttle, F. Miller..... 124,967
Loom picking mechanism, H. A. Whitten..... 124,995
Lubricating device, C. Hirsch..... 124,954
Lubricating talc for machinery, A. Bridges..... 125,016
Lubricator, steam engine, J. Foster..... 124,946
Lubricator, steam engine, W. A. Clark..... 125,022
Marrow from hams, apparatus for extracting, W. N. Macqueen..... 125,062
Match box, T. Crommelin..... 124,886
Medical compound, P. R. Myers..... 124,910
Milk pail rest, G. C. Taft..... 124,919
Mill, fanning, H. K. Stoner..... 124,918
Music leaf turner, W. Weaver..... 124,924
Nail, picture, S. C. Cary..... 124,933
Nail blanks, punching horseshoe, G. L. Hall..... 125,045
Nails, machine for making, J. Dane, Jr..... 124,938
Pantaloons, stretching board for legs of, E. F. Smith..... 124,916
Paper making machine, Burns and Campbell..... 124,881
Paper, apparatus for stamping and feeding out, Montignani & Gibson..... 125,070
Parer, fruit and vegetable, A. G. Batchelder..... 125,004
Pavement, wood, W. W. Ballard..... 125,001
Pavement, wood, L. Caldwell..... 125,019
Pavement, wood, W. W. Ballard, (reissue)..... 4,822
Photo-engraving on metals, McGill and Pine..... 124,905
Picker, cotton, N. F. Sandelin..... 124,978
Pictures, etc., apparatus for mounting and exhibiting, J. W. Hardie..... 124,953
Pinshaw and breast, Heekensmith and Coester..... 124,896
Pipes, apparatus for manufacturing tin lined lead, E. W. Newton..... 124,911
Planter, corn, A. Windeck..... 124,926
Planter and cultivator, combined, J. N. Burton..... 125,018
Potash and phosphate of lime, manufacture of, Manwaring & Birch..... 124,964
Pottery ware, etc., process for burning, G. C. Hicks..... 125,048
Preserving sweet potato, E. J. C. Tilton..... 124,987
Preserving meat, Vazquez and Rosenberz..... 125,102
Printing press, T. N. Morse..... 124,907
Pump, J. Bean..... 125,008
Pump, air, W. H. Flanigan..... 125,037
Pump, bucket for chala, W. Hutchison..... 125,051
Railroad tie, A. B. Tripler, (reissue)..... 4,838
Railroad ties, preserving wood for, A. B. Tripler, (reissue)..... 4,837
Railway rail, R. S. Sanborn..... 124,977
Railway rails, machine for straightening, G. I. Kinzel..... 125,055
Refrigerator, E. B. Jewett..... 124,957
Rings, machine for rolling stock for finger, J. S. Palmer..... 124,971
Roofing, metallic, C. Lewando..... 124,963
Rules, perforating edged column, J. C. White..... 124,925
Saddle, harness, V. Borst..... 125,011
Sash holder, A. and L. L. Griffin..... 124,949
Sash holder, Johnson and Bottnor..... 124,958
Saw gage, W. P. Miller..... 124,906
Sawing machine, scroll, S. Ide..... 124,956
Scraper, road, E. E. Coy..... 125,025
Separating millings, machine for, W. R. Middleton, (reissue)..... 4,827
Separator, grain, G. A. Dabney..... 125,027
Separator and bagger, grain, J. J. Bradner..... 125,014
Sewing machines, treadle for, A. H. Wagner..... 125,103
Sewing machines, hemmer for, G. E. Dolton..... 125,033
Sewing machines, ruffling attachment for, G. E. Dolton..... 125,032

Sewing machines, ruffling attachment for, Gray and Joy..... 124,894
Shears, J. Gardner..... 125,041
Shears, R. Renz..... 124,975
Shoemakers, head block for, J. H. Morton..... 124,863
Shovel, snow, W. P. Wentworth, (reissue)..... 4,835
Signal for railway crossings, C. F. Pike..... 124,974
Slaughtering apparatus, M. Brenner..... 125,015
Sled, J. K. Reichert..... 125,088
Slide, extension, J. Dourson..... 125,084
Soda water draft tube, D. Fergus..... 124,982
Soldering can caps, machine for, W. B. Bishop..... 124,980
Sonnette, G. W. Sherman..... 125,091
Square, attachment to carpenters', J. Dalgleish..... 124,887
Starching machine, P. O'Thayne..... 124,969
Steam generator, H. Howard..... 124,898
Steam generator, T. Merriam..... 125,068
Steam generator, H. M. and J. F. Rulon, (reissue)..... 4,833
Steel, manufacture of, G. F. Wilson..... 125,107
Stool and chair, combined, E. Worch..... 125,110
Stoves, damper regulator for, L. Boore..... 124,981
Sugar, etc., centrifugalmachine for draining, A. Fesca..... 125,036
Table slide, extension, S. R. Garner..... 124,947
Tassel, H. C. Lees..... 125,059
Tempering apparatus, H. H. Ray, (reissue)..... 4,829
Tin from scrap, apparatus for separating, F. W. Dorn..... 124,880
Tobacco hanger, A. G. Ferriss..... 124,943
Tobacco machine, J. Scales..... 124,979
Transplanter, J. C. Fuller, (reissue)..... 4,832
Trap, animal, J. Rollins..... 124,976
Trap, fly, L. M. Gould..... 124,951
Trunkkids, stay brace for, S. H. Amidon..... 124,999
Tubes, casing copper, J. F. Guthrie..... 125,044
Umbrella, G. F. Child..... 124,985
Urn, ice and water, E. A. Parker..... 124,972
Valve bucket, A. A. Moulton..... 124,909
Valve, safety, T. D. Rand..... 125,081
Vegetable cutter, J. S. Mace..... 125,061
Vehicle wheels, metallic hub for, S. T. F. Sterick..... 125,095
Veneers, machine for cutting, J. C. Brown..... 124,880
Vessels, rigging for, G. Taylor..... 124,986
Wagon, hay, A. B. Barlow..... 124,876
Wagons, brake lock for, L. and H. Egeberg..... 124,941
Wagons, end gate for, Lounsbury..... 124,908
Washing machine, Epstein and Braker..... 125,035
Washing machine, C. Gates..... 124,893
Washing machine, J. Key..... 125,054
Washing machine, G. L. Witsil..... 124,108
Washing machine, J. M. Walker..... 125,104
Washing machine, J. Taylor..... 125,099
Water ejector, steam, Habermehl and Kleiman..... 124,895
Water closets, valve for, W. Smith..... 125,082
Well tube, driven, W. D. Andrews..... 125,000
Wells, tool for enlarging oil, C. Bullock..... 124,982
Whip socket, G. F. De Vine..... 124,889
Winding frames, stop motion for, Unsworth and Whalley..... 124,989
Wringer, clothes, R. E. Ferguson..... 124,942
Writing apparatus for the blind, J. R. Coles..... 125,024

DESIGNS PATENTED.

5,705 and 5,706.—CARPETS.—M. Blatchford, Halifax, England.
5,707 to 5,719.—CARPETS.—A. Cowell, Kidderminster, England.
5,720.—CARPET.—J. C. Johnston, Scarborough, N. Y.
5,721 to 5,723.—CARPETS.—H. S. Kerr, Philadelphia, Pa.
5,724.—OIL CLOTH.—J. Meyer, Lansingburgh, N. Y.
5,725 to 5,727.—OIL CLOTHS.—J. H. Park, Burlington, N. J., Byerly Hart, Philadelphia, Pa.
5,728.—TYPE CASE.—A. H. Bailey, Somerville, Mass.
5,729.—TYPE.—C. E. Beyer, West Roxbury, Mass.
5,730.—CLOCK FRONT.—N. Muller, New York city.
5,731.—BIRD CAGE.—G. R. Osborn, B. A. Drayton, New York city.
5,732 and 5,733.—CHANDELIERS.—F. R. Seldensticker, West Meriden, Conn.

TRADE MARKS REGISTERED.

712.—GRN.—Adams, Blake & Taylor, Boston, Mass.
713.—TICKINGS, ETC.—Amoskeag Manufacturing Co., Manchester, H. H.
714.—PAINTERS' LEAD.—Boston Lead Company, Boston, Mass.
715.—ESSENCE OF GINGER.—F. Brown, Philadelphia, Pa.
716.—COTTON FABRICS, ETC.—Hamilton Woolen Co., Southbridge, Mass.
717 and 718.—HAIR NETS.—A. G. Jennings, New York city.
719.—SHIRTINGS, ETC.—Langdon Manufacturing Co., Manchester, N. H.
720.—TEA.—E. Pavenstedt & Company, New York city.
721.—ROOFING MATERIAL.—New England Felt Roofing Co., Boston, Mass.

SCHEDULE OF PATENT FEES:

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On each Trade-Mark..... \$25
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On appeal to Commissioner of Patents..... \$20
On application for Reissue..... \$30
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On granting the Extension..... \$50
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APPLICATIONS FOR EXTENSIONS.

Applications have been duly filed, and are now pending, for the extension of the following Letters Patent. Hearings upon the respective applications are appointed for the days hereinafter mentioned:

20,685.—REPAIRING CAST IRON CYLINDERS.—S. Falkenburg. June 5, 1872.
20,686.—SEWING MACHINE.—A. F. Johnson. June 5, 1872.
20,571.—DOOR LOCK.—J. R. Marston. May 29, 1872.
20,616.—FURNACE.—G. Bantz. June 5, 1872.
20,678.—RESTORING VULCANIZED RUBBER.—F. Baschnagel. June 5, 1872.
20,989.—PLATE FOR SAFES.—I. S. Cady. July 10, 1872.
20,685.—RIVETING MACHINE.—P. B. Tyler, W. Jones, B. Lathrop. June 5, 1872.
20,679.—VAULT COVER.—E. L. Brown. June 5, 1872.
20,622.—CAR SEAT, ETC.—S. C. Case. June 5, 1872.
20,631.—EVAPORATING PAN.—D. M. Cook. June 5, 1872.
16,037.—POWER LOOM.—A. Smith, H. Skinner. May 6, 1872.

EXTENSIONS GRANTED.

19,638.—FLOATING ANCHOR, ETC.—J. Humphries, Washington, D. C.
19,654.—TRIMMING MACHINE.—M. H. Semple, Lowell, Mass.
19,767.—SPRING TESTING MACHINE.—P. G. Gardner, New York city
19,626.—PHOTOLITHOGRAPHY.—A. G. Butman, Boston, Mass.
19,619.—PLANING BLIND SLATS.—C. Carlisle, Woodstock, L. Worcester Brattleborough, Vt.
19,644.—SAWING MACHINE.—H. L. Low, Galena, Ill.
19,770.—DOLL'S HEAD.—L. Greiner, Philadelphia, Pa.