Salicylic Acid in the Household.

Dr. Von Heyden gives the following directions for using this newly introduced antiseptic in the preservation of food, and for other purposes in domestic economy:

1. Raw meat: It frequently happens, especially in the warm season, that meat which is otherwise faultless emits an unpleasant smell on boiling. This is often the case with certain kinds of meat, like tongues, etc., which contain readily decomposing particles of fat and blood. This is easily remedied by laying the meat, before cooking, in warm water which contains from half to one teaspoonful of salicylic acid to the quart; or by putting a little acid in the water in

To protect meat from spoiling for a few days either of the following methods may be employed: Place it in water containing from 1 to 1 teaspoonful of acid in a quart of water; or rub it with dry salicylic acid, especially near the bone and fat. The manner of keeping it, as well as the previous cleansing, is as usual. Although raw meat, when treated with salicylic acid, loses its fine red color on the surface, it suffers no change within. The meat also cooks soft in a short time. It is also advantageous to add 11/2 teaspoonful of EGG Box.—A.H.Lucas et al., St. Louis, Mo. the acid to a quart of brine used in pickling meats.

2. Pure cow's milk: The addition of ½ to 1 teaspoonful to a quart (or about ½ to 1 gramme per liter) of dry crystallized acid—not in aqueous solution—prevents curdling for 36 hours longer than otherwise, and yet it retains the property of yielding cream and butter perfectly.

3. Butter: If butter be worked with water containing one teaspoonful of acid to the quart, and kept in such water, or packed in cloths soaked in an aqueous solution of the acid, it keeps much longer. Even butter which has began to be rancid can be improved by carefully washing with salicylic water, 2 or 3 teaspoonfuls to the quart, and washing in clean water.

- OPENING CANS, ETC.—Meyer et al., New York city.

OPEN

4. Preserved fruits: Cherries, currrants, raspberries, plums, apricots, and peaches may, as experience has proved, be very advantageously treated in the following manner: The fruit is placed in a preserve jar, with not a very wide mouth, layers of fruit alternating with layers of sugar, but RAILWAY RAIL.—J. T. Clark, Augusta, Ga. no water: and strewing over it a pinch of salicylic acid (1/2 RAISING WATER.—J. A. Ayres, Hartford, Conn. no water; and strewing over it a pinch of salicylic acid (1/2) gramme to the kilogramme, or 31/2 grains to the lb.), and covering the jar with parchment paper which has been softened in salicylic acid solution, and then boiling as usual in a water bath. Bilberries, or blueberries, are better boiled without sugar, allowed to cool, and put into narrow-mouthed bottles (some crystals of salicylic acid being strewed over them), corked and sealed. Fruit preserved in this way has kept well for two seasons. Others have recommended covering the fruit in the jar with a close-fitting strip of blotting WORKING HIDES, ETC.-A. Fitzhenry, Somerville, Mass. paper, which has been saturated with a solution of salicylic acid in rum.

For cucumber pickles, and those put up with vinegar and sugar, a corresponding process is recommended; the acid being boiled in the vinegar, and when cold poured over the pickles. For salted cucumbers, salicylic acid is put in the water during the boiling (1/2 to 1 teaspoonful to 1 quart), and otherwise treated as usual. It is also recommended to sprinkle salicylic acid in the barrel on the surface of the

5. Boiled vegetables: An equally small amount of dry salicylic acid may be added to these to prevent their spoiling.

6. For disinfecting and purifying the air and walls of closed rooms, salicylic acid may be evaporated on a hot sheet

7. Vessels, corks, etc., which have a disagreeable odor or taste, will be rendered perfectly sweet by washing with a solution of salicylic acid, a fact that deserves special atten-

The best method of preparing these salicylic acid solutions is to put 2 or 3 teaspoonfuls of acid in a quart of water, heat is an excess of pure acid, which may be kept for subsequent use, or it may be well stirred up and used in suspension when more of the acid is wanted than will go into solution.

In this connection we may add that the purest form of salicylic acid is that obtained by dialysis, as it is impossible to remove all the tarry and resinous matter by recrystalliza-

What's in a Name?

We recently published a description of an ingenious lantern improvement by President Henry Morton, of the Stevens was reproduced by the English Mechanic as etitute which College, which our cotemporary also publishes, but credits the invention to Mr. Lilliman, of New Haven, Conn.

An Improved Indian Ink.

Most of the black Indian ink met with in commerce possess this disadvantage, that it blots when a damp is brush passed over it; or, as draughtsmen say, "it does not stand." The addition of alum does but little good; but G. Reisenbichler states that bichromate of potash accomplishes the object by rendering insoluble the glue which the ink contains, and thus making the ink permanent. Such an ink Reisenbichler of potash is not colorless; on the contrary, it possesses a deep yellow (almost red) color, but does not at all injure the shade of the ink, as 1 per cent. of it in a very fine powder, intimately mixed with the ink, which has already been mixed with glue and dried again, is sufficient. The salt must always

be mixed with the ink in a dry state; otherwise the ink might it at right angles to each other. The bands hook to the connecting plate lose its friability in water.

A drawing which has been made with this ink in the dark, or by artificial light, must be exposed to sunlight for a few minutes, which renders the bichromated glue insoluble in water. Draughtsmen who cannot provide themselves with such ink make use of a dilute solution of bichromate of potash in rubbing up the ink. There is no danger of the yellow salt penetrating the paper, if the ink is thick enough.

Dyeing deep rose.—This color is dyed in the beck in which cochineal reds have been dyed, adding, for 22 lbs. material, $10\frac{1}{2}$ ozs. oxalic acid, $5\frac{1}{4}$ ozs. tin crystals, and $3\frac{1}{2}$ ozs. cochineal. Boil up, cool, and dye boiling for 30 minutes.

Inventions Patented in England by Americans.

From October 24 to November 20, 1876, inclusive,

ATTACHING GEAR WHEELS.-B. T. Taylor et al., Fall River, Mass.

BALE TIE, ETC.—W. B. Hayden, Columbus, Ohio. CAR COUPLING.—G. H. Awes, Adrian, Mich. CAR LAMP.—A. H. Phillippi et al., Reading, Pa. CASTOR.—L. P. Lawrence, Port Morris, N. J. ELECTRIC LIGHT BUOY.—P. E. Smith, Scotland Neck, N. C. ELEVATOR.—B. H. Davis, Foxcroft, Me. FEEDING PAPER TO PRESSES, ETC.—H. W. Covert, New York city. FIRE EXTINGUISHER.—H. Conant, Pawtucket, R. I. GRAIN SCOURER.—The Barnard and Leas Company, Moline, Ill. IRONING TABLE.—L. P. Lawrence, Port Morris, N. J. JAR, ETC.—A. Montgomery, New York city. LAYING PIPES, ETC.—A. O'Neill, Baltimore, Md. MAGNETIC ENGINE.—E. Weston, Newark, N. J MAKING GAS, ETC.—R. D. Bradley, Preston, Md. MATCH FRAME.—E. B. Beecher, New Haven, Conn MOWER AND REAPER.—S. Sweet, Dansville, N. Y. NAIL FEEDING MACHINE.—J. C. Gould, N. J. OPENING CANS, ETC.—Meyer et al, New York city. PIPE JOINT.—A. O'Neill, Baltimore, Md.
PIPE MACHINERY.—J. B. Root, New York city. Three patents.
POTATO DIGGER.—L. A. Aspinwall (of Albany, N. Y.), London, England. PREPARING WOOD.—N. Wheeler, Bridgeport, Conn.
PRESSING SUGAR.—T. L. Wadsworth, San Francisco, Cal. PULLEY, ETC.-A. A. Hall et al., Nashville, Tenn RIBBON WIRE, ETC.—J. Fettis, New York city. SCREW CUTTING.—S. W. Martin, Springfield, Ohio. SETTING SPRINGS, ETC.—J. S. Passenger et al., Birmingham, Conn. SHEET METAL PIPES, LTC.—F. Hœltge et al., Cincinnati, Ohio. SHOVEL.—H. W. Shepard et al., Brooklyn, N. Y. SMOKE CONSUMING FURNACE. - C. B. Bryant, et al., Stoneham, Mass. SPEED GOVERNOR.—G. Westnighouse, Jr., Pittsburgh, Pa. SPRAY APPARATUS.—M. A. Lake et al., Chicago, Ill. STEAM BOILER, ETC.—J. B. Herreshoff *et al.*, Bristol, R. I. STORING FUEL, ETC.—E. R. Kerr, Kewanee, Ill. SUGAR MAKING, ETC.-E. A. Corbin et al., Philadelphia, Pa. TREATING EXTRACTS, ETC.—W. Adamson, Philadelphia, Pa. WIRE FENCE, ETC.—W. D. Hunt, Scott, N. Y.

Recent American and Loreign Latents.

NEW MECHANICAL AND ENGINEERING INVENTIONS.

IMPROVED COTTON GIN FEEDER AND PICKER

William T. Adams, Rienzi, Miss.—Cotton to be operated upon is placed on an apron, when it is carried forward to the picker, the apron being moved by a crank. The picker being revolved by a belt from the gin, acts upon the cotton as it comes over the roller and delivers it to the gin. The rapidity with which the cotton is fed into the machine may be varied. The picker cylinder has forked and curved teeth,

IMPROVED TIRE UPSETTER.

Morris W. Griffiths, Middle Granville, N. Y .- In using the machine the part of the tire to be upset is heated and is bent inward over the horn of an anvil, more or less, according as the tire is to be shortened. The bent part is then placed upon a plate, and is clamped by rough faced eccentrics. The bend is then hammered out of the tire, when the latter will be short-

PULVERIZED FUEL FEEDER FOR SMELTING FURNACES.

William West, of Golden City, assignor of one half his right to Ira S. Elkins, of Denver, Col. Ter.—This is a contrivance for feeding smelting rapidly to boiling, and let cool. What separates on cooling furnaces with coal dust by means of the air blast. A screw conveyer feeds the dust into tubes, from which it drops through the funnel-mouthed pipes into the large blast pipes upon nozzles through which the blasts escape and force it into the furnace

IMPROVED BOOT AND SHOE CRIMPING APPARATUS.

Henry Lampus, Enon Valley, Pa,-The leather to be crimped is placed under a plate, and it is forced down between other plates by a screw, the distance between the plates being adjustable. The form of the plates not only causes the leather to crimp smoothly and eventy without wrinkles, but the boot made of an upper crimped on this machine is claimed to be not liable to wrinkle in the instep, and is more comfortable to wear than those crimped in the usual way.

IMPROVED LABELING MACHINE.

Jonathan Bigelow, Boston, Mass.—This invention is an improvement in that class of labelling machines or apparatus in which the paste and the discovery of Mr. Henry Norton. We also described the label are applied to the can as it rolls down an inclined plane, of which the new resonant alloy invented by Professor Silliman, of Yale paste bed and label holder form a part. The invention relates to several features for improvement, for which reference must be made to the patent.

NEW MISCELLANEOUS INVENTIONS.

IMPROVED FIRE EXTINGUISHER.

Amzi S. Dodd and Isaac C. Andrews, New York city, assignors to Home Fire Extinguisher Company, of same place,-A bottle containing part of the gas generating ingredients is held in a cage in the upper part of the can, and so disposed that, by screwing down a stem which is attached to a bell which rests above the bottle, the latter is forced down on a projection on the bottom of the cage and broken. The construction is such that it is impossible to break a charged bottle when adjusting it, from forgetting to raise the breaking devices. The second invention consists in ribs formed upon the inner sides of the bars of the cage to receive the ring rib formed calls "Harttusche," or "hard Indian ink." The bichromate upon the outer surface of the bottle, and support said bottle; and in the combination of a stopper with the stem and the bell in such a way that the bottle may drop away from said stopper when forced down through the

IMPROVED PACKAGE BAND.

age band consists of a connecting plate, with two elastic bands attached to | claimed to throw the water in a line parallel with the shaft.

after passing around the package in opposite directions.

IMPROVED APPARATUS FOR HANDLING HORSES.

William W. Winegar, Chambersburg, Ill.—This consists of a couple of upright crotches, together with cords and a tightening device therefor, mounted on a cranked axle of a pair of wheels, in such manner that, by adjusting the axle fore and aft under the body and between the legs of the animal, the cords may be arranged so as to confine him in a web in which he can be turned over on side or back, and can be moved about readily on the wheels.

IMPROVED PEW HAT HOLDER.

William H. Hampton, Luray, Va.—This invention consists in applying to the back of pews a wire holder that is capable, by a rotary movement, of placing a gentleman's hat under the seat in front, the hat being thus both out of the way and not at all liable to become soiled or injured. Patented April 18, 1876. See advertisement on another page

IMPROVED PEA-NUT HEATER.

Jean Espito, New York city.—This consists of a top receptacle with a hinged cover, surrounded at the sides and bottom with a water chamber that is heated by a charcoal furnace in the base or supporting chamber. The charcoal furnace provides the steady heat required for heating the water bath, which again imparts the required heat to the pea-nuts without wilting, browning, or parching the same. They may thereby be kept in the heater for considerable time, and be sold at any moment in a fresh and

IMPROVED PROCESS OF MAKING BIRCH BEER.

Harvey Decker, Jersey City, N. J.—This process is for making beer from ground birch bark, and it consists in first extracting the strength thereof in hops and water without boiling; secondly, fermenting the liquor obtained with yeast; and, thirdly, in adding malt and sugar, the latter having been previously made to absorb oil of wintergreen.

IMPROVED LIQUID FILTER.

William Maynard, New York city.—This is a combination of the partitions and the screens with each other, and with a case to form a series of filtering and conducting spaces for the passage of the liquid. The construction is such as to enable the apparatus to be quickly and thoroughly

IMPROVED STONE PAVEMENT.

John Murphy, Columbus, O.—This consists in laying blocks of stone with interspaces, filled with a composition consisting of pulverized slag, coal tar, fresh lime, sand, and pitch. A pavement laid in this manner is said to be impervious to water and is not acted upon by frost. The composition, being in a measure elastic, renders the pavement easy to travel on, and it also deadens the sound of vehicles passing over it.

COMBINED PENCIL SHARPENER, PROTECTOR AND ERASER.

Andrew Wilson, Providence, R. I.—This is a casting which resembles a human hand grasping a cone, and having the index finger extended. The cone is hollow, and has a section removed from one side. In one edge a knifc is secured, for the purpose of sharpening the pencil. The lower end of the cone holds a rounded rubber eraser. The index finger is widened, and in it is secured a knife. The portion of the blade near the cone is made concave for cutting twine. The outer end is intended for cutting paper of different thicknesses. The arm of the casting is bored and threaded for receiving the point of the pencil, which it protects.

NEW WOODWORKING AND HOUSE AND CARRIAGE BUILDING INVENTIONS.

IMPROVED SPRING HINGE.

Lorenz Bommer, Brooklyn, N. Y.—A flange or wing plate is cast in one piece with the ornamental top and bottom buttons of the hinge, and has a fixed pintle socket and detachable top socket, both provided with annular recesses. This dispenses with the separate casting, finishing, and attaching of the buttons, and imparts, by the greater bearing surface on the pintle, a more rigid connection with less friction on the faces or bearings

IMPROVED WAGON BRAKE LEVER.

David McGuire, New Gordon, Mo.—This consists in the arrangement of a jointed lever for operating the brake connected with a pawl, that engages with rounded ratchet teeth on a curved bar attached to the side of the wagon. The pull of the brake rod on one part of the lever locks the pawl in the curved bar. The lever automatically unlocks the pawl when it is moved to relieve the brakes.

NEW AGRICULTURAL INVENTIONS.

IMPROVED GATE,

William G. Hughes, Columbia City, Ind.—When the gate is closed its forward end enters the space between the two posts. The latch is placed $\,$ across this space so that it may engage upon a catch and fasten the gate. By operating a lever a latch may be raised to unfasten the gate.

IMPROVED FEED TROUGH.

James H. Grundy and Thomas H. Carter, Bremen, Ky.—This trough is so constructed as to prevent fowls or other animals than those being fed from having access to the grain, and to prevent the animals being fed from wasting their food by throwing it out of the trough. It is provided with a cover sliding longitudinally, in which is a hole to receive the animal's The cover is provided with suitable stops to limit its movements.

NEW HOUSEHOLD INVENTIONS.

IMPROVED WEATHER STRIP.

John C. Fiester, Reading, Pa., assignor to himself and Jacob Schaaber, of same place.—This weather strip is made from two pieces of wood, one of which is fixed to the door and the other joined to it by a rule joint. Hinge plates are provided at each end and also springs for throwing the remevable part down on the door sill. A spring bolt catches and retains the strip as it is raised by passing over the threshold, and is tripped by contact with the door casing as the door is closed.

IMPROVED PADLOCK.

Anthon O. Kruger, Rock Harbor, Mich.—This consists of a pawl connected to the bolt and so held by a spring that it must be pushed by a thumb piece into the path of the key before the latter will engage it, so as to throw back the bolt. The thumb piece is locked by a spring pin inside of the lock, so that it cannot be moved until the spring pin is drawn out b the key. The invention also consists of a secondary bolt, to be worked by a key hole plate and a stud on it, which engages the holt, by a nawl, so as to swing into and out of the position to be engaged with the keyhole plate stud, which must itself be adjusted to a certain position to receive the

IMPROVED SCREW TAP.

Josiah W. Melvin, Houston, Texas.—This is an expanding tap or reamer having cutters placed in slots in the tapering portion of a mandrel, in which they are capable of being moved longitudinally. They are clamped by a thimble and nut upon the outer side, and a clamping bolt running.

IMPROVED SCREW PROPELLER.

Frank Maynard, North Dorset, Vt.—This is a motor for the propulsion of canal boats. It consists in arranging upon radial arms screw blades that extend inward from the circumrerence of the wheel through one half or less of the distance from the periphery of the shaft, and in making them of the same pitch at the inner and outer edges. The hoop that sur-Owen I. Taylor and Thomas H. Patterson, Saginaw, Mich.—This pack. rounds the wheel, as well as the peculiar construction of the hull, it is