NEW INVENTIONS.

Hermann Streitz, of Rauschmühle, near Freienwalde, Pome- into the sprinkler, whence it will fall upon the operator. rania, Germany. It is well known that the outer part of the grinding surface of millstones wears out first, whereas stone. which never became worn off, had to be cut away. This is an item of considerable importance, and the difficulty is avoided by this improvement.

new soap, composed of tallow, olive oil, sal-soda, unslaked when the books become stretched by being filled the clasps lime, rosin, borax, alum, white wax, spermaceti, and ben- can be lengthened to correspond, instead of becoming usezine, which ingredients are prepared in the manner and less, as is usually the case. combined in certain proportions given in the specification.

holding a candle, a slotted and curved partition, having a be readily manipulated by the occupant. correspondingly curved spring attached to it for holding a An improved wash boiler has been patented by Mr. quickly, so that a fuse will be ignited and a candle lighted in the bottom of the boiler, and provided with a pipe seat lit, by closing the cover.

Spalding, of Rosita, Col. The invention consists in a seat of the plate. pivoted to the side of a counter or wall, and having a single or forked leg pivoted to its under side, the end of this leg William T. Hollis, of Corsicana, Texas. The object of this sliding in a grooved vertical guide of the counter and being invention is to regulate the pressure of the rubber upon the attached to a spring, the upper end of which is attached to clothes, and thus facilitate the operation of washing clothes. to the mill and sawed into planks, boards, and dimensionthe counter above the seat, so that this seat will be raised pant leaves the seat.

Portland, Oregon. The invention consists in a stove with used as the freezing agents. a central tubular flue and an annular flue surrounding the central flue, so as to insure a thorough circulation of the heat tral flue and fed from a tank or reservoir combined with the

improved carriage body support for painters' use, whereby be operated by foot-power or by steam or horse power. carriage bodies may be firmly and securely supported and turned side for side and end for end, or held in any position desired, and the surface leveled with very little trouble.

An improved barrel swing has been patented by Mr. Sylvester W. Sheldon, of New York city. The object of this invention is to improve the construction of the barrel swing same inventor May 18, 1880, in such a manner as to make it more convenient and satisfactory in use.

with the refuse.

ed an improved coffee pot provided with cup-shaped sieve, should ultimately remain. through the bottom of which a central tube passes, sur- The hydro-kinone developer yields, in the case of the nonmounted by a perforated cap, and the lower end of this ammoniacal emulsion, very fine yellowish-red or bright-red tube is threaded, so that it can be screwed into the upper tones, well adapted for lantern transparencies or for transtity of coffee or tea is to be made.

improvement in that class of devices designed to hold win- the picture. A simple addition of more carbonate of ammowindows. The invention consists of a rubber tube closed been given and the normal developer used. loosely-fitting rigid pin, which tube and pin constitute the slowness; but the following answers very well in all ordi-fested. stop, several of which are designed to be set in suitable nary cases: sockets in the edges of the sash, so that opposite faces will bear against the sides of the sash grooves in the window parts; sodium hyposulphite, 1'5 parts. frame and the bosses against the bottoms of the grooves.

A convenient portable showering device, to be applied to 50, 40 parts. any washing or bathing tub, has been patented by Mr. Ed. ward Williams, of Griffin, Ga. The invention consists of a the fixed prints are immersed, but care must be taken not with the ordinary arrangement.—MM. Scarpa and Baldo, in

of the grinding surfaces, has been patented by Mr. Emil standing in the tub can operate the pump to force water up obtain a very considerable variety of tones.

the central part of the grinding surface remains quite York city. The object of this invention is to produce alkali emulsion just in the same way as carbon tissue is prepared, intact; but in order to have a level grinding surface the balls without wires, thereby saving the cost of the wires and the plain paper being drawn over the surface of the melted entire surface of the millstones in use heretofore had to be the trouble caused by their presence in the balls. The inven- emulsion. Another method adapted for the production of dressed, which involved a considerable amount of time and tion consists in forming the balls on screws or screw-threaded small quantities is to rub a glass plate with French chalk, labor and was very expensive, as the central part of the pins, and in the combined pin bars and pins used in the and coat with emulsion. After this has set a sheet of damp manufacture.

Mr. Adrian C. Selby, of Covington, Ky., has patented a invention is to furnish albums with extensible clasps, so that News.

Mr. Charles H. Vibbard, of Aurora, N Y., has patented Mr. Theodore Hofstatter, Jr., of New York city. This a cigar lighter constructed with a case provided with a invention relates to chairs having backs adjustable for varyhinged cover and a spring catch for holding the cover closed, ing their inclination to the seat; and the object of the invena tube provided with a spiral spring and a tubular cap for tion is to furnish a chair of that general character which can of kaolin clay, free from grit, one part; resinous sawdust,

fuse, a four-armed wheel pivoted to the case for raising the John Murray, of Woodman, Wis. This invention relates machinery, into a plastic mass. fuse, a curved arm attached to the cover for operating the to that class of wash boilers which have their bottoms four-armed wheel, a curved arm attached to the cover for sunken or formed into a pit, and it consists of a removable ground, the spongy product is forced by plungers driven by igniting the fuse, and a curved spring for raising the cover plate adapted to fit over the mouth of the depression or fit by opening the cover, and the fuse raised, ready to be again and pipe at one end, holes for the passage of water at its: long blocks or logs, of length, form, and size best fitted for opposite end, and a partition or frame having openings and An improved pivoted counter seat, which is raised up valves, and resting on the bottom of the pit, which frame four to six feet in length. When sufficiently dry to render against the counter or wall automatically as soon as the serves the threefold purpose of a valve seat, a brace to sup. handling safe these logs are moved into kilns or clamps caloccupant leaves it, has been patented by Mr. Reuben J. port the plate, and a means for preventing lateral movement culated for the purpose. After the steam and vapors are

An improved washing machine has been patented by Mr.

against the side of the counter or wall as soon as the occu- portable and inexpensive apparatus that can be operated by quently fashioned in the workshop into such forms and hand for freezing cream and cooling water when ice cannot articles as demanded by purchasers. This material, being An improved gasoline stove adapted for cooking and readily be obtained for such purposes. The improvements free from grit and tough in texture, can be cut, sawed, heating has been patented by Mr. George A. A. Siffait, of relate to the class of machines in which volatile liquids are

Messrs. Isidore Gerard and Peter Tremblay, of Newton, Kan., have patented an improved washing machine which obtained. created by a double gasoline burner arranged below the cen- is simple, convenient, and effective. The top of the reser-Mr. James A Dubbs of Lansing. Kan has patented an with the hinged door near the rear end. The washer may unfits it for moulding purposes.

Positive Pictures on Gelatino-Chloride.

A form of the hydro-kinone developer which Dr. Eder and Captain Pizzighelli recommend is prepared as follows: and undoubted in its capacity for every emergency. Her Water, 100 volumes; alcoholic hydro-kinone solution, 1 and stately ten-storied buildings can in a conflagration receive 20, 4 volumes; sodium chloride solution, 1 and 30, 12 volfor which Letters Patent No. 227,848 were issued to the umes; ammonium carbonate solution, 1 and 30, 20 volumes. This is considerably slower in its action than the iron developer previously described, and an exposure of three or improved cotton condenser for use with gins, for receiving be remembered is the circumstance that pictures developed of plastering without first lathing. and compacting the cotton. The object of this invention is with hydro-kinone are very much more reduced during the to prevent the drums from choking and escape of cotton operation of fixing than is the case with pictures developed and is erected with nails instead of cement or mortar, virtu by means of iron; and it is consequently necessary to carry ally rendering fire-proofing a work of carpentry instead of Mr. George A. A. Siffait, of Portland, Oregon, has patent. on the action until the picture appears much denser than it masonry as heretofore. Mr. C. C. Gilman's present address

No. 1.—Water, 500 parts; ammonium sulphocyanate, 20

pump provided with a clamp for securing it to the edge of to allow the pictures to remain too long in this bath, or the Les Mondes.

the tub, and of a perforated pan or sprinkler and an upright more delicate half tones will acquire an unpleasant bright An improved millstone, which facilitates the adjustment pipe connecting the same with the pump, so that a person | blue tint; by careful watching, however, it is possible to

> The chloride emulsion process appears to possess very An improved apparatus for the manufacture of alkali notable advantages over the bromide method for the producballs has been patented by Mr. Minard M. Smith, of New tion of positives on paper, and the paper may be coated with paper is squeegeed down upon it, and when all is dry, the An improvement in album clasps has been patented by gelatino-chloride paper may be stripped from the glass, the Mr. Thomas Kelly, of New York city. The object of this French chalk serving to prevent adhesion.—Photographic

Terra Cotta Lumber.

One of the most important of recent practical inventions An improvement in reclining chairs has been patented by is that of the manufacture of lumber from fire clay, patented by Mr. C. C. Gilman, of Eldora, Iowa.

The process is fully described in his letters patent, from which we extract the following: The composition consists from one to three parts, as porosity may be required; water sufficient to thoroughly incorporate the above, by the aid of

Removed from the grinding tubs, where it has been steam through iron or steel cylinders to express the superfluous moisture therefrom, and issues forth in the shape of handling, usually eight to twelve inches in thickness and driven out by a slow, steadily increasing fire, the temperature is rapidly raised to nearly a white heat, which not only consumes the sawdust, but brings the clay itself into the first stages of vitrifaction. On cooling, the logs are removed Mr. Charles W. Gelett, of Oakland, Cal., has patented a stuff, as lumber from wood is manufactured, and subsebored, planed, and carved with edged tools, and before or after such treatment can, after slipping and glazing, be sub. mitted to a second firing, with fine results in ornamentation

Kaolin is the upper stratum of fire or feldspathic clay beds, voir is covered with the removable cover, which prevents the and owing to the absence of sand or free silica is unsuited to water in the reservoir being splashed out, and it is provided common pottery uses, as its warpage in drying and firing

Mr. Gilman's invention overcomes this trouble, inasmuch as the material is reduced to form with edged tools subsequent to firing.

New York's greatest present want is a fire-proofing, cheap, but little aid from the fire department, especially when Cro ton is as scarce as it is now.

Terra cotta lumber is indestructible by fire, gases, or acids; is a poor conductor of heat, sound, and electricity; Mr. Peter Forshay, of Amite City, La., has patented an four times the usual length is advisable. Another point to and possesses molecular attraction to an extent which allows

> Its weight is one-half less than common building brick, is room 71, No. 71 Broadway, New York.

A Notable Chinese Scroll.

The Chinese merchants in San Francisco have lately end of a tube of a filling piece, fitting in and closing an parencies intended to be used in making enlarged negatives, received from the Emperor of China a handsome scroll in opening in a false bottom or horizontal partition a short while the ammoniacal emulsion gives grayish-red and recognition of the contributions sent by them to the victims distance above the bottom of the pot. This filling piece is unartistic tints. An ordinary gold toning bath slowly of the Chinese famine three years ago. The scroll is four of greater or less size, accordingly as a greater or less quan- changes the color of the reddish images to highly pleasing | feet high and twelve feet long. The surface is entirely crossviolet tints Should it be wished to obtain more intense grained and indented with miniature squares formed by lines Messrs. Thomas Lawrence, Absolom C. Stratton, and images than are yielded by the developer as described, it is running from opposite corners. These squares, uniformly James M. Wolf, of Mountain Home, Ark., have patented a merely necessary to give a longer exposure, and to dilute the covered with old gold, stand out in bold relief by means of cheap, safe, and reliable fire-lighting device to be used in developer with about an equal bulk of water. A diminution a darker shade of gilt with which the lines are traced. Four the place of ordinary matches, it being intended more espe- in the proportion of hydro kinone, and a corresponding large Chinese letters in abony are carved at regular intervals cially for outdoor use. The invention consists, principally, increase in the ammonium carbonate, tends toward flatness across the face of the scroll, around which is a rich border of a cord saturated or coated with some easily ignitible sub- and fog; a similar result also following any considerable of flowers and fruits. The scroll itself is inclosed by a stances or mixture and a lamp, both contained in a suitable diminution in the amount of sodium chloride present. Any deep, wide frame, upon which is carved a large number of small case or box, the cord being adapted to be drawn out, considerable increase in the proportion of sodium chloride allegorical figures, so wrought and blended together as to as it is used for lighting the lamp, through a small aperture, or of hydro-kinone is undesirable, the former leading to appear to have been made of one solid piece of wood. At which aperture is protected with a hinged or sliding cover. extreme hardness and deep ruby shadows, while the latter the lower corners are placed two figures of Chinese gentle-Mr. Albert Ayers, of Rahway, N. J., has patented an causes a greenish fog to form over the transparent parts of men, each holding a sword, the upper corners being devoted to two maidens, each having a tambourine in hand, and dow sashes at any desired elevation, and to prevent their nium is useful in case of under-exposure, but the results are depending from which is a long weil, completely encircling rattling, and is especially designed for car and carriage not nearly so satisfactory as when the correct exposure has their body. The space intervening between the figures is blocked with dark glass, so that under an artificial light the at one end, provided with a head having a polygonal face. As a rule, the gelatino-chloride pictures tone with some effect is very beautiful. The imperial present has caused a or edge and a projecting central boss, and containing a difficulty, an ordinary neutral gold bath acting with extreme commotion among the Chinese, and great curiosity is mani-

> Modification of Ruhmkorff's Coil. - With an induced coil, arranged in two blocks placed on the poles of the mag-No. 2.—Water, 500 parts; chloride of gold solution, 1 and netic nucleus and communicating with each other, so that their points of junction may be at equal distances from the For use, equal parts of the two solutions are mixed, and nucleus, effects are obtained of much greater power than