

[Reported Officially for the Scientific American.] LIST OF PATENT CLAIMS

Issued from the United States Patent Office.

FOR THE WEEK ENDING SEPTEMBER 12, 1854.

MACHINES FOR CLEANING WOOL-L. W. Boynton, of South Coventry, Conn. : I claim the combination of the cy-linder with the hollow or mandril, when these are combined with the horizontal vat, divided into two or more apartments, and the whole is constructed, arranged, combined, and made to operate as described.

CORN SHELLERS-Gilbert Maynard, of Greenfield, Mass.: I am aware that a roughened and beveled wheel with an ad-justable guide, has been previously used in corn shellers. I am also aware that the two wheels have been employed in one machine, one wheel presenting its side, and the other its roughened beveled periphery to the ear of corn. These de-vices therevore I do not claim. I claim the arrangement herein described, whereby two shelling wheels with their axles parallel turning in opposite directions, are made to operate simultaneously upon one ear of corn, the ears being fed in between the said wheels, as set forth. APPARATUS FOR TURNING THE LEAVES OF BOOKS-H.C. Bridgham, of New London, Conn., and J. M. Stewart, of

Bridgham, of New London, Conn., and J. M. Siewart, of Norwich, Conn.: We claim, first, the combination and ar-rangement of the lever, pawl, ratichet wheel, and pin roller, or their equivalents, so constructed and operated as to raise the pawls in succession, and allow the fingers to turn the leaves of a book as required. Second, the combination and arrangement which operate the fingers separately when the leaves of a book are turned back to repeat a portion of the tune, in combination with the apparatus which operates the fingers successively, as describ-ed, the apparatus which operate the Singers separately when to drange the apparatus which operates the fingers successively.

to drange the apparatus when years sively. Third, Making one fork of the fingers elastic, or operating it with a spring so as to gripe the leaf of a book when placed between said forks, as described.

To with a spring so as to gripe the test of a book when placed between said forks, as described. STRFACE CONDESSES FOR MARINE ENGINES—Danl. Car-penter, of Brooklyn, N. Y.: I am awate that a perforated place has been used in combination with the ends of the tubes of a surface condenser to distribute the steam en-placed at the side of a congrises of tubes, to distribute and subdivide the waker passing to the outside of the tubes to ef-fect the condensation of the steam inside of the tubes to ef-fect the condensation of the steam inside of the tubes to ef-fect the condensation of the steam inside of the tubes to ef-fect the condensation of the steam inside of the steam en-tombination and arrangement like that which I claim to combination with the tubes of a perforated place in combination with the tubes of a perforated place in combination with the tubes of a surface condenser. I am also aware that one series of tubes bent in the form of the letter U have been clauped together by two clamp bars, for heaters'or evaporators of liquids, and therefore I do not wish to be understood as making claim broadly to the uses of clamp plates for clamping tubes; but I am not aware that several series of tubes have been bound together by outside clamps. and interposed grooved bars to bind all the tubes to rether in all directions, under an arrangement and combina-tion such as specified. I claim, in a surface condenser, in which the steam to be condensed is made to pass outside of the tubes, putting the ubes closed preder by making the two ends of the tubes is not be thought on the steam to be forth. DISTRIBUTING FLUIDS—John W. Middleton, of Philadel-phia. Pa. : I claim the arrangement of a water reservoir and air vessel between the service pipp and the distributing cocks or near the latter, as set forth. I also claim the vertical pipe, water, and pressure gauge, substantially, as set sorth, to regulate the flow of fluid through pipes.

through pipes. APPARATUS FOR DETERMINING THE WEIGHT OF CARGORS IN VESSELS-Ephraim Morris, of South Bergen, N. J.: first, I claim determining the level of the water and the conse-quent weight of the cargo, by means of a plunger, hollow rod, glass tube, and bulb, applied to the tube containing the water, as specified. Second, I claim the adjustable socket, with an index mark-ed thereon, in combination with the hollow rod and plunger, wherely the apparatus is adapted to different boats of the same size or to the same boat under various circumstances, as specified.

I chaim in surface contenser, in which the steam to be condensed is made to pass outside of the tubes, putting the tubes closetogether by making the two ends of the tubes which pass through holes in the tubesheet of a smaller diam-eter than the body of the tubes and securing them in place by means of nuts tapped on to the ends thus reduced, as specified, I also claim, in combination with a congeries, or set of

I also claim, in combination with a congeries, or set of tubes, arranged as described, to constitute a surface conden-ser, which effects the condensation of the starm outside of the said tubes, a guard plate or plates, with apertures as de-scribed, and between the exhaust port or in left for the starm, and the side or sides of the set of tubes, as described, and for the purpose of protecting the tubes from the violent concus-tions of the steam when entering, as set forth. And I also claim as a means of resisting shocks and pre-venting as described, the employment, in combination, of the outside clamp bars and interposed bars grooved to em-brace the tubes, so that when bound together they shall be firmly held to resist all lateral motion or vibration, whilst at the same time the clamps and interposed bars will further, ext as simplargams to direct the steam across the set of tubes, as described.

BOOTS AND SHOES-Nathl. Colver, of Detroit, Mich. : I do ot claim the use of wood as soles, or bottoms of boots or

not claim the use of wood as soles, or bottoms of boots or shoes, as used by the peasantry of France or Germany, when worn as sandals or shoes made entirely of wood, and I hereby disclaim any such pretension. I claim the construction of boots and shoes (with uppers as now constructed in the United States) with a wooden instead of a leather sole, or bottom, attached to the leather uppers, as described, or iu any equivalent manner, for the purpose set forth.

[What is the difference between these boots and shoes and common English clogs, with uppers of leather and soles of willow wood? Such clogs have been in general use among the Lancashire peasantry for centuries; every person who has traveled in England has noticed them.]

MET ALLO SLAF SUPTERS-John B. Cornell, of New York City: I claim the improved manner of uniting the sheet met-el alata of the shutter, viz., by swaping the edges of the slats into frames of corresponding segments of circles and connect-ing these by means of hinged bars combined with said slats, and arranged in such a manner that the pivots of said hinges will be concentric with the segmental curves of the edges of the shats, and also cause the flat portions of said slats, when the shutters is apper, to be directly in line with each other, in the manner and for the purposes set forth.

OSCILLATING ENGINES—William Craig, of New York City, I claim the steam pipe or valve operated by means of the ec-centric rodfor obtaining a double action in combination with the follower and trunnion of an oscillating steam engine for the purpose of admitting steam into the face of the trunnion without regard to the size of parts, substantially in mode of construction of the said parts and application thereof, as des-without

I also claim the mode of arranging the eduction and in-duction ports without regard to size, as set forth.

necessary to polish and pickle the pins before and other buildings, that will be cheaper and ley, of Rome, N. Y. : I claim the use of a framefitted with friction rollers to move with the alidlug piston, embracing also the method of interlocking, as described. Also, the modification described, to satisf any arrangement, mean while maintaining the requisite efficiency to any pur-dent states and the satisfies of the s coppering them. The above-named manufacas good as shingles to turn water, and fireturers have most ingeniously effected the polproof? You, or some of your correspondents CURTAIN FITURES—Don Carlos Smart, of Cambridge-port. Mass, I am aWare that a center pin inserted in a socket made in the end of a roller, and resting against a coiled spring placed in said socket, has been employed in curtain fixtures, I therefore do not claim such nor is it to be considered in any respect as a contrivance equiv-alent or analogous to my invention either in construc-tion or operation: for with my improvement applied to a curtain roller I am enabled to dispense with a balanc-ing weight to the curtain, and to obtain any amount of friction on the centers or bearings that may be necessa-ry to overcome the weight of the curtain, and sustain it any desirable hight or position between the limits of its movements. CUPTAIN FUTURES-Don Carlos Smart of Camb pose where motion is to be communicated through the revo-lution of the arms, wings, or vanes, the two opposite extrem-ities varied in their relative length by means of an eccentric ishing, the pickling, and the coppering, by may know of something, and may make it one single operation. To treat, for example, knownthroughyour valuable paper. cylinder or ring. STRAW CUTTERS-Warren Gale, of Troy, N. Y.: I am aware that throats to straw cutters have been made adjusta-ble so as to approach the knife or receded from it, and also so as to contract or expand in order to compress the straw more or less; therefore I do not claim these features, as hereto-fore used : but I claim the arranging the flange or flanges on one explined, so that they will meet the knife or knives on the other cylinder, as the two cylinders rotate, substantially in the manner described. I also claim in combination with the flanged cylinders, the throat placed ia such relative position to said flanged cylin-ders as to nearly meet the latter at a desired point in their revolution, thus assisting to give a long cut if and throat be startbed, and a short cut when the throat is contracted, as described. cylinder or ring. 2 kilogrammes (a little more than 4 lbs. $6\frac{1}{2}$ C. C. P. Olney. oz.), 4 litres (about 7 pints) of water, 300 Providence, Sept. 8, 1854. grammes (10 ounces 9 drachms, avoirdupois, [We have had more than one inquiry of by weight) of oil of vitriol, 30 grammes (15, the same nature as the above. We do not To overcome the weight of the overce and the limits of at any desirable high or position between the limits of its movements. I am also enabled, by means of my improvement, to dispense with the usual socket piece or bearings for the journals, that become necessary in other fixtures for cur-tain rollers and particularly where one of the journals is made movable against a spring, as set forth. I therefore claim the combining the center pin of the curtain roller with the roller, by means of a screw and making the pin with a head by which it may be revolved, the same enabling me not only to dispense with the usual counterbalancing weight necessary for the window shade or curtain, but to form in the window frame the female centers or bearing holes by the pressure of the screw, and thereby I dispense with the usual socket pieces gen-erally applied to the window frameford. ounces, 13 grains, avoirdupois) of salt of tin, know of any material possessing the qualities 40 grammes (1 ounce 4 drachms 17 grains) of desired, that is as cheap as shingles. crystallized sulphate of zinc (white copperas) ---and seven grammes (about 108 grains' avoir-Gore's Paten't Butter Worker. We noticed this improvement on page 410 COUPLING FOR CARRIAGES—Abram J. Gibson, of Clinton, Mass. I claim as new, the employment of a cylindrical bar of iron having a threaded bolt projecting downwards, and working in a threaded cylinder on the forward axle, for the purpose and in the manner and form, as set forth. I also claim, in requirements with the cylindrical bar of iron, the manner of connecting the rear with the forward axle by means of a threaded bolt formed at the connection of the rods or perches, and working in a threaded chamber, cut in the cylindrical bar, as set forth. dupois) of sulphate of copper, are mixed together; this mixture is allowed to dissolve of our last volume, and stated that steps had during twenty-four hours. The bath being been taken to secure a patent. We should thus prepared, it is to be introduced into a have stated that a patent was granted forit barrel of wood, made pitcher-like, and mount- July 25, 1854. OPERATING FIRE ENGINES-F. G. Smith, of Columbia, ed upon an axis. Into this barrel, which has The Patentee resides in Bennington. 293

SFORE MACHINE—Newell North, of Stow Township, Ohio: I claim, first, the index and cam crank in combination with the forked center or holder and the carriage or their equiva-lents, for the purpose set forth. Secondly, I claim the combination of the handles, rod, lever, and popet center, adjustable cross bars, and screws, the same being combined with the carriage frame and guides, as described for the purpose set forth. Thirdly, I claim the arrangement or relative position of the cutters. With respect to the set of cutters, I or the purp-

as described for the purpose set forth. Thirdly, I claim the arrangement or relative position of the cutters, I, with respect to the set of cutters, J, or the pur-pose set forth. Fourthly. I claim the support or standard and springs, or their equivalents, combined as described and specified, for the requivalents, combined as described and specified, or any equivalent combination, for the set of cutters, or any equivalent combination, for the purpose of planing two sides and one edge of the spoke, with the one and the same set of cutters, as described.

set of cutters, as described. BREECH-LOADING CANNON-WM. E. Osborn, of Milton, N. Y.: First, I claim the eccentric or cam shaped piece set on trunnions, so that the operation of rotating said breech piece on its trunnions by a lever or any suitable means, com-presses the curved surface of said breech piece against the rear of the bore or caliber of the gun, as specified. Second, I claim removing said breech piece from the line of the bore or caliber of said gun by rotating said breech in the reverse direction, causing the cam or projection, or its subject to act as a fulcrum, on which said breech is lifted by the one operation of rotating the breech, the trunnions, sliding up in the grooves, as specified. Third, I claim the construction and arrangement of the harmer and nipple, whereby the harmer is cocked by its own weight, for the purpose and as specified.

own weight, for the purpose and as specified. TALORS' SREARS-Joseph Phares, of Cincinnati, Ohio Iclaim, first, the placing of the rivet of tailors' shears, out-side of the angle formed by prolonging the directions of the cutting edges for the purpose of giving to the cutting point of the edge an oblique backward motion, thereby increasing the ease of cutting, diminishing the resistance to working the shears and bringing the cutting points nearer the hand. Second, combining with this the guide, a stud set in one blade working in a curved slot in the other, having a screw thread cut on it, on which is placed a rive thead nat, or other equivalent device, for the purpose of steadying the mo-sion of the edges and more affectual securing them from spreading in the working.

SEWING MACHINES - Philander Shaw, of Abington, Mass. : I am aware that a cam or wiper operating against a friction roller in one arm of a bent lever, made to work or depress a version of the set of the set of the set of the set of the lever, I therefore do not claim any such contrivance. But I claim the described combination applied to the shaft for imparting to it an intermittent rotary motion so as to ob-sist ing of the cam, the wheel, the movable or sliding box (or its mechanical equivalent) and the or sliding box (or its mechanical equivalent) and the spring applied together and to the shaft sand made to operate as capacity of the shaft and the shaft sand made to sole as bached. Box-suce Guere MULL-Sowned Sheldon. of Cincinstif.

Scientific American.

TRUSSES-Seymour N. Marsh, of New York, N. Y.: I

[This is the best improvement in trusses that we know of.]

APPLYING HEAT TO DILATE GASES FOR THE FURNOSE OF ELEVATING WATER-John W. Middleton, of Philadelphia, Pa. : I make no claim to elevating fluids by the dilation or contraction of gaseous media, whether by natural or artificial heat : but I claim the method described and represented of applying heat to elevate water.

COOKING STOYES AND RANGES-James MacGreggor, Jr., of New York, N. Y.: I claim having a flue orflues surround-ing the oven or ovens for the purpose and in the manner as set forth.

REGULATOR FOR GAS BURNERS—Andrew Mayer, of Phil-adelphia, Pa. 1 do not claim the employment of a conical valve to regulate the flow of gas, irrespective of the peculiar construction of the said valve. But I elaim the employment, as described, of a hollow conical valve, perforated at its apex, and having openings around its base, and being arranged with a box which re-ceives the gas through an opening under the valve, as set forth.

RE-ISUE. PUMPS FOR ELEVATING WATER MIXED WITH MINERAL SUBSTANCES-Wm. Ball, of Chicopee, Mass. Original pat-ent dated Dec. 23, 1851: I claim the improvement by which the waste auriferous or earthy water that leaks out of the shaft hole of the case is saved and returned into the body of the case, and the wear of the shaft hole of the chamber prevented, the said improvement consist-ing in the chamber, the collar, and the passage, as com-bined together. connected with the case, and the shaft of the fan wheel, and made to operate, as specified. Second, I claim the rings, as constructed and applied to the interior of the pump, for the purpose set forth.

DESIGN MOLE TRAP-Henry Fry, of Cincinnati, Ohio, assigno to Saml. Maxwell. سفاد محصاد شر

Foreign Items of Science and Art. PURIFICATION OF FIXED OILS, ESPECIALLY

OLIVE OIL FOR WATCHMAKERS .- The colorless olive oil which is used by watchmakers is exceedingly dear, and yet the process of its bag with some fine sawdust and shaken, by of very strong spirits of wine (sp. gr. 0.853) and allowed to stand for about fourteen or fifteen days, during which time it must be rethe end of the period mentioned, the oil becomes colorless. If the mixture be exposed to the direct action of the sun, this change takes place much more rapidly. The under layer of oil is separated from the spirit, which floats upon it, and is preserved in well-closed bottles (stoppered, or with plugs of wood or greatly afflicted with yellow fever. Savangutta-percha); the spirit may also be pre- nah, Ga., has suffered severely, so has Charlesserved for another operation-or if large quantities be employed, it may be distilled reports of the deaths, as published, it appears after each operation. The removal of color is not the only advantage which is gained by treating olive oil with alcohol, for a considerable quantity of the margarine which it contains is also dissolved out, and hence oil so tive of Savannah, the others were four Gertreated will not solidify so readily as the raw mans, four Irish, one New Yorker, and one oil. The process just described, and which is North Carolinian. In the same paper there undoubtedly better than treatment, first with is a letter from Dr. S. H. Harris, in which he sugar of lead, then with sulphuric acid, wash- agrees with Dr. Wildman in reference to the ing with boiling water, and drying with chloride of calcium, or any other of the processes

in common use, is applicable, more or less, to disease. all other oils, even to coarse fish oils. It may be of importance to painters in oil, who are anxious not to injure the delicate tints of ultramarine, rose, scarlet, and other delicate shades of red, and in fact of all pure tones, that linseed oil, even the darkest and muddiest, may be so far bleached as to become in this manner in Great Britain .--- [Polytech-nisches Journal.

PROCESS OF WHITENING PINS AND NEEDLES MADE OF IRON AND STEEL. BY MM. VANTIL-LARD AND LEBLOND.-It is well known that pins made of brass wire are deficient of strength and elasticity, and accordingly they have been replaced by pins made of iron or steel; but it is necessary to tin them over.-This operation, however, cannot be performpins have a rough, uneven surface, which renders them inconvenient to use, as they are liable to tear the cloth.

MILL STONE DRESS—Perry Dickson, of Woodcock Town-shlp, Pa.: I elaim the dividing the face of the runner and bed stone into three circular courses of furrows, A B, B C, and C D; all the furrows in A B having the same draught, and having twice the number of furrows in B C thatthereare in A B, and giving these furrows the same draught in res-pect to themselves, but a different draught from the furrows in A B, in combination with the furrows in the third course, C D, to operate as conveyors in the manner described, or any other construction substantially the same. PORTABLE GRIEF MILL-Samuel Sheldon, of Cincinnati, Ohio: I do not claim the securing of the stones in flanged heads or cups, as such has been done before. But I claim securing the stationary stone to an upright flanged plate, and the adjustment of said plate by means of slotted flanges and holis, for insuring in a simple and effectu-al manner the parallelism of the faces of the stones as herein before set forth, when the same is applied to a mill in which the axis of revolution of the running stone is horizontal. Messrs. Vantillard and Leblond, wishing to truth of the alleged discovery; it has too avoid this defect, formed the idea of first covmuch the air of a romance about it. ering the iron with a thin coating of copper **** or other metal having a greater affinity for Reefs of Houses. tin than iron has; but in order that this re-MESSRS. EDITORS-Can you advise me of the PALATE FOR ARTIFICIAL TEETH-LORENZO Simonds, of Boston, Mass. : I claim attaching to an artificial palate, or to any plate to be secured in the mouth, an air cham-ber constructed with a fiexible elastic diaphragm, for more effectually exhausting the air between the artifi-cial palate and the root of the mouth, as set forth. sult should be satisfactorily attained, it is best composition to cover the roofs of houses PISTON OR VALVE FOR ROTARY PUMPS, &c.-Joseph Gat-y, of Rome, N. Y. : I claim the use of a frame fitted with

VENTLATING SHIP TIMBERS—Joseph L, Harley and Sam-uel Maxwell, of Baltimore, Md.: We claim constructing a ventilator for ships' frames, consisting of the tube and cap fitting thereon, sustained by means of the double acting pring on the stem, by which the cap is kept open or securely close when down, as set forth. found to have received a pickling, a polishing, and a slight coppering. After the lapse of this time, 20 grammes (about 10 drachms 8 grains, avoirdupois,) of sulphate of copper, in crystals (blue stone), are to be added, and the barrel again turned during 1 minutes, when a solid coppering will be effected, with a finely-polished surface. This done, the liquid in the barrel is to be decanted off, and may be used repeatedly for the same purpose; the pins are washed in cold water, then put in a tray containing a hot solution of soap, and agitated for about two minutes. The soap lye is decanted off, and the pins put into a purification appears to be so simple that any which means the coppered surface assumes a watchmaker may prepare it himself. If com- brilliant appearance. The pins thus prepared mon olive oil be mixed with an equal quantity may be tinned in the ordinary way. The articles made in this way are far more beautiful and useful than those made in the ordinary way. This process is the more deservpeatedly shaken; already, in the course of a ing of attention at present, quite indepenfew days, the yellow color of the oil begins to dent of the superior quality of the pins, in condisappear, and then gradually fades, until, at sequence of the exceedingly high price of brass wire.-[Bulletin de la Societie d'Encouragement.

Remedy for Yellow Fever.

We have felt deeply for those Southern cities which have been-and still are-so ton, S. C., and New Orleans. But from the that the mortality is chiefly confined to the foreign population, and strangers. In the Savannah Republican of the 5th inst., of ten deaths from yellow fever, only one was a naefficacy of the muriated tincture of iron as the best remedy ever applied for this terrible

Campher Insanity.

We have noticed in a number of our cotemporaries, accounts of various persons who had been deprived of their reason by swallowing large doses of camphor, for pain in the bowels, during the recent cholera excitebright and clear, and have only a slight yel- ment. We do not know personally of a sinlow tinge; a good deal of oil is now purified gle case of insanity caused by camphor, but from the great quantities of this drug so imprudently used by many persons, we have no doubt but the statements are true. A very few drops of the spirits of camphor, in water, is a sufficient dose for a grown up person.

*** Great Subterranean Road.

The Mariposa, Cal., Chronicle gives an account of a wonderful cave which has been discovered by some person whose name is not ed equally well with iron as with brass; the one side to the other through the Siera Nevada Mountain. The entrance was discovered behind a waterfall, and had been long known to the Indians. We are inclined to doubt the