

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

Issued from the United States Patent Office

FOR THE WEEK ENDING JANUARY 28, 1854.

Pressess for Marina Miniature Casse-H. T. Antho-ny. of New York City: I claim the construction of the platens of a press for applying the covering materials to miniature and other like cases, by forming the face which gives the pressure of elastic materials, whereby the embossed or other raised figures and ornaments will not be obscured or injured during the process, while at the same time a superior quality of work is produced, as set forth.

DAGUERREOTYPE PLATE HOLDER-P. H. Benedict, of Sy-racuse, N. Y.: I claim the arrangement of a vise or an-alogous device upon the side or edge of blocks used for holding daguerreotype plates will they are being pol-ished or buffed, the vise constructed as described, and operating by holding the bent edge of the plate between its jaws.

CULTIVATORS-By Enos. Boughton, of East Bloomfield, N.Y. I do not claim any part of the raising and depress-ing device; nor do I claim the knife or the wheels se-

T claim the combination of the knife with the wheels, I claim the combination of the knife with the wheels, or the purpose of cutting up the ground and destroying thistles or any other weed, plants, or grasses therein.

FIXING LIKENESSES IN MONUMENTS-Wm. Boyd, of Gar rettsville, Ohio: I claim com bining with a monument of retusville, Ohio : I claim com bining with a monument or grave stone, a case having a concave mirror set in the back part, and having also within it a miniature like-ness of the deceased, which may be kept secure from the action of the weather, or from liability to receive other inj ry, said miniature being attached to the cover of the case in such a way, that by opening the cover the set forth.

FORMAIN PENS-By Wm. Cleveland, of Orange, N. J.: I do not claim the employment of capillary action to supply the ink to the pen except when used under an arrangement and combination, consisting in the em-ployment of the leading stem so fixed in the delivery aperture that it shall lead the ink down on one side of the aperture and allow the air to enter the other, as set forth.

PRESSES FOR MOULDING GLASS-By Wm. O. Davis, of Pittsburgh, Pa, : I claim the combination of the rocking shaft, connecting rods, swinging beam, and toggle joint lever: or their equivalents, as described, for the purpose of procuring a vertical pressure in presses, together with the mode of attaching them, so as to relieve the bed-plate and frame-work of the press of any strain.

DIVIDED RAILROAD AXLES-By S. L. Denney, of Chris-tiana, Pa. : I claim the gradual conical enlargement ter-minating in the more abrupt curred portion. toward the inner end of one part of the axle, in combination with the alloy surrounding it and the adjustable connecting box, arranged and operating as described.

[See engraving of this invention on page 52 of this volume, Sci. Am.]

COTTON PRESSES-C. J. Fay, of North Lincoln, Me.: I claim the use of the slats or guide strips, arranged as set forth.

SAW MILLS-E. W. Johnson, of Perth Amboy, N. J.: I claim the arrangement of mechanism for driving two saws, or gangs of saws, and placing the whole upon the bed plate, as set forth.

PROFELLERS-Harry Leach, of Boston, Mass.: I claim he specified improvement in constructing a propeller, riz. of a combination with each of its arms, of two parts or floats, projecting in opposite directions, and an open-ing or passage arranged between them for the escape of back water, as described.

APPARATUS FOR CLEANING AND BEFFING DAGUERRAG-YEE PLATES-Thomas Longking, of Brooklyn. N. Y.: I lonot claim the builing wheel nor any of the parts se-

do not claim the outwing wheet has any or any view series are parately. But I claim, first, fitting the revolving cushion with the ring, by which the canton fiannel or similar cover-ing is secured to the cushion, cr removed, and a new cover substituted when required, as specified. Second, I claim the arrangement of the gearing and hatts, by means of which the cleaning cushion is com-bined with the buffing wheel, as set forth.

QUARTZ CRUSHERS-T. O. Cutler, of Jersey City, N.J. I claim the employment of balls to act by centrifuga I claim the employment of balls to act by centrifugal action due to their rotation about a common center, as specified, when the said balls are combined and act against the inner perpikery of a shell or concare which rotates on a common axis with the balls, and which, by reason of its rotation, distributes and holds the mate-rial to be ground, &c., in the conexvity of the said shell, as specified.

as specified. SHUTTER HINGES-Harvey Lull, of South Coventry, Ct., (assignor to Harvey Lull and Richard Porter, of Wheel-ing, Pa) Antedated Jan. 2, 1634: I claim the so form-ing of a self locking shutter hing, cast in two pieces, as that the blind or shutter hung thereon may swing open or shut on a horizontal plane and lock, when opened to its limit, and so that also when locked open, the atrain shall be taken off from the spindle and thrown on to cam arms, and thus effectually relieve the spindle from the weightor strain of the shutter, as described.

error; and, in writing, blueish paper is better French Rivers Breaking up. the nose to the root of the tail, and nine from for the eyes than pure white. When the eye working in the cylinder house, or having a bowe, and forms a continuation of the cylin-der, as described. Second, I claim the combination of a bell crank latch lever with a trigger or catch, or other shape capable of operating as described, when the fulcrum of the said latch lever is attached and stationary in felation to the hammer block, and one end or arm is attached to the connecting rod of the hammer block and receives the necessary movement to actuate the trigger or catch, to set iree the valve rod by means of a continuous descent of the connecting rod after the hammer is arrested by striking the blow, as set forth. The breaking up of the rivers of the north tip to tip. feel fatigued, bathing them in cold water will of France, after the late heavy snows and severe both strengthen and relieve them. In reading | frost, threatened to cause great damage, but Glass bottles were first made in England, great relief will be found if the eyes are about 1558. The art of making glass bottles seems to have passed over without either seriturned from the book to some soft and harmoous collision or inundation. The explosion of and drinking glasses was known to the Romans the Seine, near the Pont Neuf, as the rising in the year 79, A. D.,-they have been found nious colors. Brilliant colors, therefore, in paper or paint, should not be chosen for a library in the ruins of Pompeii. water cracked the frozen crust, was heard a [This is a good improvement. See notice on page 20, or sitting-room, where either reading, or writmile. A large police force was ready, all the this Volume 1 The most stupendous canal in the world is ELECTRO-MAGNETIC ENGINES—Chas. G. Page, of Wash-ington, D. C. Patented in England May 3, 1851: I claim the employment of the axial action or force of the elec-tric current as a mechanical agreat or motive power for the various purposes named, the power being produced by the combination or united operation of a helix or helices, an axial bar or bars of bron, and a cutoff, or its equivalent, for regulating the motion of the axial bar or bars, under a general arrangement in principle, as set forth. And I claim also the employment of co-operating elec-tromagnets or armatures, in combination with axial bars, helices, and cutoff, or its equivalent, substantially as set forth. ing, or sewing is going on. For sewing, that boatmen had double lashed their boats, the one in China, which passes over two thousand peculiarly feminine employment, is quite as trybathing houses were made fast with huge iron miles, and to forty-one cities; it was commenced ing to the eyes as study; and fine sewing at cables, and the washerwomen's rafts were hookin the tenth century. A monster work of man. night is really very injurious, and should be ed into pilasters and parapets. In forty eight avoided if possible. Generally the eyes should hours the river was clear. The Seine rose The largest and oldest bridge in the world be used, in all these occupations, as much as three feet in half an hour, and the current was is said to be that at Kingtung, in China, where can be in the morning. Ground glass shades, laden with icebergs that would have done hon- it forms a perfect road from the top of one lofty at night, are bad, as they deaden the light too or to Spitzbergen. 2) mountain to the top of another.

Lastly, I claim the employment of square wires in the onstruction of helices for electromagnetic purposes, as [This invention of Dr. Page is published on page 65

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Vol. 7. Sci. Am., with a full description.]

WATER GAUGES FOR STEAM BOILERS-Wm. Palmer, of New York City: I claim the use of the double tubular case in combination with the lever, having a float at one end working in one of the tubes, and a compensating plate or equivalent device, at the other, working in the

plate or equivalent device, at the other, working in the opposite tube, for the purpose set forth. I also claim the use of the lever having a float at one end of it and a compensating plate at the other, wheth-er working in a double tubularcase or otherwise, in com-bination with an upper and lower rod valve for opera-ting a bell by means of the steam escaping through these valves, whether using the pad die wheel or any equivalent device for that purpose, to indicate the min-mum or maximum of the water in the boiler as set forth.

MANUFACTURE OF SHEET-IRON-E. G. Pomeroy, of Pitts-burg, Pa.: I do not claim the use of the described mateburg, Pa.: I do not claim the use of the described mate-rials, in combination, as a paint or composition that may be forced into the surface of iron. But I claim incorporating, as described, solid carbon-accous matter with the surface of iron so as to protect it from oxydation and beautify it at the same time-

CONSTRUCTION OF PRINTING BLOCKS-Benj. Underwood, of Brooklyn, N. Y.: I claim the peculiar construction of the type described, so that when combined in a case such as specified, any given design may be produced for printing oil cloths, carpets, or other fabrics, as fully set forth

forth. I also claim the formation of blocks for printing oil cloth carpets or other fabrics by the combination and arrangement of sections or type, such as described, by which an endless variety of patterns may be produced from the same sections variously disposed, at a compar-atively small cost.

atively small cost. CARPET BAGS—F, J. Thring, of New York City: I claim constructing the carpet bag with its top and bottom of equal or nearly equal widths, and 'arranging round its front astrong metallic frame, and attaching to the front and near the center of said metallic frame, by hinges or loose joints, a metallic swinging cover, which extends from thecenter to the top of the frame, and has a ledge on its inner face, the said cover serving to close up the mouth of the bag, and in cennection with the me-tallic frame to keep out, all dust and rain. The whole being constructed, arranged, and operating in the man-ner specified.

Accurse For PAGING BOORS-By Edward Town, of Jer-sey City, N. J. : I claim the arrangement of type in spi-ral columns around a cylinder, for the purpose of print-ing successive numbers, the cylinder being moved la-terally while it revolves by means of a screw on the end of its shaft, as described. I also claim the right to use any number of cylinders on a single machine, as set forth.

STBAM HAMMBRS-P. L. Weimer, of Reading, Pa.: 1

STEAM HAMMERS-P. L. Weimer, of Reading, Pa.: 1 make no claim to being the originator of not admitting steam into the cylinder until after the hammer has struck its blow : the same being effected by others, al-though by different arrangement of device from that which I employ. I donot claim admitting steam into the cylinder of steamhammers by means of the recoil of the anvil caus-ed by the blow of the hammer. But I claim the arrangement of the toggle, the catch, two arms, the weight and shaft, for the purpose of open-ing the valve admitting steam into the cylinder irom the concussion or spring of the anvil in its bed, caused by the force of the blow of the hammer.

CHURNS-I. L. Dickinson, of Richmond, Ind.: I he combination of the movable or rotating da the combination of the movable or rotating dashers, with the breakers, as described, so that said breakers mayremainstationary, while churning and revolve with the dashers to collect the butter, as described.

FURNITURE CLARTERS-LE Roy S. White, of Chicopee, Mass. : I do not claim making the shank of the caster detachable from its socket: nor do 1 claim the employ-mentiof a spring to hold the shank in the socket; nor the arrangement of said spring in a groove made in and around the shank, and the making the spring to bear against the internal surface of the socket made without a groove.

arrove. But I claim the arrangement of the sustaining groove of the spring in the socket, inspead of in the shank, so that when the shank is being drawn out of the socket, or when it is within or out of the same the spring will remain in the socket.

of which the socket. And in combination with the spring and groove made In the socket, I claim to make the groove of the shank with its upper side flaring and the upper end of the shank beveling, as described, the said flage of the side of the groove and the top rendering the shank capable of being detached from or attached to the socket.

RE-ISSUE.

RE-ISSUE. OPENING AND CLOSING GATZE-S. G. Dugdale, of Rich-mond, Ind. Patented originally Oct. 11, 1853: I claim, fret. opening, closing, fastening, and unfastening the state. by moving the bottom of the gate in an oblique di-rection from and to the post upon which it is hung, as specified.

sectory forward to the post upon which it is hung, as specified. Second, I also claim the use of the pendulous and verifical levers and arms in combination with the hinges of the gate, as set fortb. DESIGNS.

CANNON STOVE-William Resor (assignor to Wm. and R. P. Resor & Co.) of Cincinnati, Ohio.

COOKING STOVE.-By Conrad Harris and P. W. Zoiner of Cincinnati, Ohio, assignor to Alex. Bradley, of Pitts

burg, Pa.

* COOKING STOVE-Peter Seibert (assignor to Alezander Bradley). of Pittsburg, Pa.

Care of the Eyes.

Dr. Dafter says : "So many women complain by Claus in relation to the iridosmin from oth-Strychnine for Panthers. of weak eyes, that we have thought it wise to A farmer in California recently killed a large erlocalities. Palladium has been observed, and give some directions as to reading and writing, by at times in sufficient quantity to render the gold panther in the following manner :--- "The aniwhich the sight may be preserved uninjuried. brittle. The quantities of platinoidmetals found mal attacked his pig-pen, killing a fine hog and ROLLERS FOR SCARFING THE EDGES OF SEELPS FOR LAP WELDED TUBES-James McCarty, of Reading, Pa.: 1 claim a pair of roller constructed, arranged, and agius-ed as described, soar sto bevel the opposite edges of skelp plates of different widths on opposite sides of the same. Observe then, that the light should never be eating about half of it. He then anointed the in the California gold are small, about 141b of allowed to fall on the paper, or on the eyes of iridosmin having been obtained from about 25 other half with strychine, and left it on the same the reader, or writer, but the left side; for tons of the gold, 3-100000, but the greater part spot. The ensuing night brought the depreda-STRAM HAMMERS-J. L. L. Morris, of Reading, Pa.: I do not claim attaching the hammer to a beam, which is operated by a piston in a steam cylinder, when the ham-mer is connected rigidly to the beam, as that would be equivalent to what is known as the "helve" steam hamthen the eyes are not annoyed with the shadhas, of course, passed into the coin, the coarser tor again to its feast; and the next morning a ow of the pen, as will be the case, when the grains only being left.-[By Prof. Booth in the huge she-panther and three cubs were found exlight comes from the right side. That writing tended lifeless on the ground. The animal was transactions of the Smithsonian Institute. tries the eyes more than reading is a popular er. I claim, first, admitting steam to the cylinder above he piston, and exhausting the steam therefrom through orts, which are opened and closed by an annularvalve orking in the cylinder itself, or in a steamchest which placed above, and forms a continuation of the cylinof an extraordinary size, measuring six feet from

much; the common paper shade, which concentrates the light downward is better."

The Precious Metals.

TOUGHENING GOLD .- Wolf proposes, in the Practical Hand-book for Jewellers, to fuse the brittle gold in a new crucible, and when melted to throw in one or two pieces of sulphur of the size of a pea, to shake the crucible a little with the tongs, and to cast it rapidly into a heated mould. He also proposes to render small pieces malleable by coating them with powdered borax, and heating them in the blowpipe flame, until the surface commences fusion. Both of these methods are resorted to at the

United States Mint, but the choice of either depends upon the nature of the accompanying metals that give the gold its brittle character. When there is a quantity of iron present, the gold is fused with a mixture of sulphur, potash, and soda, which will remove it by making the very fusible mixture of sulphurets of iron and alkali. If tin, arsenic or antimony be present, a good flux is a mixture of borax, soda, and saltpeter, the last for oxidizing the foreign metals into their respective acids, the soda to give base to those acids, and the borax to collect the slag. In both these cases a sand or clay crucible is preferable to a black-lead pot, in which last the graphite acts reducingly. Where lead is present this process may partially effect its removal; but it is more completely effected during quartation and by washing the fine gold thoroughly with hot water, after extracting the silver by nitric acid. Another method of removing lead would be to fuse the gold with a little saltpeter, borax, and silica, whereby a fusible slag of oxyd of lead would result, and might be skimmed from the surface of the gold. Palladium and platinum, not unfrequently present in California gold, are also rem. ved by the nitric acid in parting silver from gold. Grains of iridosmin have been observed in California gold, in distinct particles, even after three or more fusions, and seem to have no tendency whatever to enter into an alloy; but, whilst casting such gold, these paticles collect at the bottom of the pot, from their greater specific gravity, and, by remelting in a small crucible, and carefully casting, they may be obtained mixed with a small quantity of gold. The latter is dissolved by nitromuriatic acid, and the iridosmin obtained pure.

PLATINOID METALS .- Platinum is associated with several other metals in the platinum sand which is tound in some gold-districts .-They have not been found as a distinct deposit in California, but have been observed in the United States Mint in the operations of assaying and parting. These associated metals are palladium, rhodium, iridium, and osmium, to which we must add the lately discovered metal, ruthenium .. They have a sufficient resemblance to be classed together, and are obtained by a similar hydrometallurgic treatment. The grains of iridosmin, alluded to under gold, have been qualitatively examined and found to contain the new metal ruthenium, as was observed

Arsenic Eaters. The Styrian peasants, says Professor John-

ston, eat arsenic as the Chinese eat opium .--They eat it for two specific purposes-to acquire plumpness and freshness of complexion, and to improve their "wind," so as to enable them to climb long steep mountains without difficulty of breathing. And, strange to hear, these specific purposes are attained. The young poison-eaters are remarkable for blooming complexions, and full, rounded, healthy appear ances. The peasant, after dissolving a slight particle of arsenic in his mouth, ascende heights with facility which he could not otherwise do without the greatest difficulty of breathing.

Bed Clothes.

The perfection of dress-day or night-where warmth is the desideratum, is that which confines around the body sufficient of its own warmth, while it allows escape to the exhalations of the skin. Where the body is allowed to remain in its own vapors we must expect an unhealthy effect upon the skin. Where there is too little ventilating escape, insensible perspiration is checked, and something analagous to fever supervenes. Foul tongue, ill taste, and lack of morning appetite betray the result.

Amorphous Phosphorus.

Considerable attention has been drawn of late to a variety of phosphorus bearing the above name, which has been recommended for the manufacture of lucifer matches, &c., both as being less injurious to the health of the work. men, and less apt to ignite on being handled. From the researches of Puttfacken, however, it appears that the substance in question, although undoubtedly possessing the above valuable properties, is merely a low oxyd of ordinary phosphorus, and not, as was supposed, an allotropic modification.

A Remedy for the Vine Disease.

It is doubtless well known to most of our read. ers, that the vineyards of Southern Europe and the Madeiras have been blighted by a microscopic acarus, the "Oidium Tuckeri," and that the price of wines, raisins, &c., has been considerably raised. It has, however, been ascertained that the use, of manures, rich in iodine, enable the vine to resist these destroyers. In certain districts of Spain, decomposed seaweeds are ordinarily used as manure. In those parts in which the amount of iodine in the soil may average 1-600000 the vines have entirely escaped.

California Postage.-Extortion.

We have received many complaints from California respecting the exhorbitant rates of postage charged upon our paper. A subscriber from San Franciso says that he has been charged 75 cents per quarter, postage, upon the Scientific American! We have taken pains to inquire of the proper authorities here, and find that 61 cents if paid in advance, is all that can be legally charged. We trust that our subsoribers there will submit to no such extortion.

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