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Scientific American.

SELF-ACTING WAGON BRAKE--Joseph Rosencrans, of Avoca, N. Y. : I claim the arrangement of means set-forth for operating the brake, by the holding back of the team.

STOVES-Geo. H. Russell, of Baltimore, Md. : I claim Srovrss-Geo. H. Russell, of Baltimore, Md. : I claim the combination, with the inner fire drum, A, of the cold air base, D. vertical side pipes, E E', and elhow, e, with their dampers, g g, cylindrical eover, or top drum, with F its chambers, fi 12 13, and connecting tube, f 4, horizontal air-space, G, and outlet, i, with air-drums, I K, passage, j j, front vertical register pipes, J J, foot warmer connecting pipes, k k, and foot warmer, L, with its register, I, ventilating registers, r r, double smoke-pipes, N n, P p, with dampers set as described, and divided outer smoke drum, O, with its passage or passages, substantially as and for the pur-poses set forth.

CARPET FASTENER—A. M. Smith, of New York City: I claim the combination and arrangement of the point, A, lips, b b, slot, c, bearing, d, lips, e e, point, f, hook, g, lips, h. bearings, i i, substantially as and for the purposes specified.

MANUTACTURE OF BELTING-Chas. E. Smith, of Phi-ladelphia, Pa. : I claim the manufacture of continuous belting. or boards, by uniting pieces of band iron. by lapping and riveting two beveled ends, so as to produce a rhomboirdal joint, in the manner and for the purpose substantially as described.

SUBSTATIBLY as described. CORDAGE MACHINEXY-GEO. Stephenson, of North-field, I.d.: I claim the employment of a series of mov-able bearing crossbars, i, with side pivots or gndgeons, k, the ends of the crossbars being supported by longi-tudinal slots or grooves, h, in the flyer bars, a, and con-nected to each other by elastic straps or thongs, I, whereby the crossbars are made to press genily upon the ends of the spools (which are mounted upon the side pivots, k) to resist slightly the rotary motion thereof, and also admit of the occasional removal of one or more of the spools, without disarranging others of the series, the crossbars, spools and elastic straps being ar-ranged in the manner and for the purpose described.

AxLE-BOX FOR RAILROAD CARE-Levi Stevens, of Fitchburg, Mass. I claim a box made of anti-friction metal and backed with a casing of bronze, the bronze passing througn the anti-friction metal, and resting upon the axle, for the purpose described.

upon the axle, for the purpose described. CONDENSING STEAM-ENGINES-John Sutton (assignor to himself aud DeWitt C. Van Tuyl), of New York City : I claim, first, The arrangement of the combined air-pump and condenser piston, K, to act independent-ly of the walking beam of the engine, so that a portion of the exhaust steam, while the piston. F, is first com-pieting and commencing a stroke shall impart a full stroke to the piston, K, as shown and described. Second, The arrangement and combination of the forked levers, Q S, the crank, E, lever, R, and piston rod, K', so that by the action of the piston, K, the crank, E, will be assisted in passing the dead points, but during other portions of the crank movement, the parts above named will be disconnected from the erank, E, all substantially as shown and described.

[In this invention, the air-pump and cylinder of a condensing engine are combined, and the cold water injection is so applied that condensation takes place in the air-pump, and the use of a separate vessel as a condenser dispensed with. The air-pump is operated hy the direct pressure of the exhaust steam upon its piston without any aid from any other part of the engine, and the surplus of power in the air-pump over and above what is necessary for the discharge of the water of condensation from it is used to help the crank or cranks past the centers.]

MANUFACTURE of WRENCHES-Geo. C. Taft, of Wor-cester, Mass. : I claim the peculiar mode of construct-ingthe head and shark of acrew wrenches, namely, by first forming or constructive the head, c, and shark or bar, a, separately, as shown and described, and then uniting the head and shark after the shark, a, has been inserted into the depression, d, first made in the head, c, by welding, the whole operation being sub-stantially as described and for the purposes set forth.

SEEDING MACHINES-T. H. Tatlow, Jr., of Palmyra, Mo.: I claim, first, The employment or use of the cov-ering hoe, G, operated from the supporting wheel, G, through the medium of the rollers, g g, bur, J, and the bars, F I, connected by the rod, H, substantially as de-scribed

bars, F I, connected by the rod, H, substantially as de-scribed. Second, The share, O, provided with the curved bars, j, in connection with the shares, M N, and hoe, G, the whole being arranged for joint operation, substan-tially as and for the purpose set forth. [This invention relates to a novel means employed

for covering the seed, and also to a novel device fo properly preparing the ground in advance of the share that forms the furrow which receives the seed. This invention is designed to cover the seed more perfectly than has hitherto been done by a machine, and to im tate as far as possible the covering of the seed by hand.]

CORN MILLS-J. W. Taylor, of Philadelphia, Pa. : I claim the application and arrangement of the oblique projections, C, to the shell, or concave, a, operating in the manner and for the purpose set forth and specified.

TAILOBS' PRESSING MACHINE-J. W. Thorp, of Hills-boro', N. H. : I claim raising the heater from the bot-tom of the hollow goose, either by means of the projec-tions formed on the bottom of the heater, or by adjust-ing screws or their equivalents.

BEE HIVES-3. H. Walker, of Somerville, Tenn elaim the moth decoy entrances, c f, provided with the jutting lips or ledges, b d, arranged just within the bee entrance, a, across its entire extent, both above and below, substantially in the manner and for the purpose

below, substantially in the manner and for the purpose specified. I also claim the construction and arrangement of the crossbars, r, attached to a supporting cross-piece, P, and with open spaces, S & around their ends, substan-tially in the manner and for the purpose set forth.

BORENG MACHINE-John Waugh, of Elmira, N. Y. I claim the arrangement of those mechanical appli ances, in a peculiar manner, for a new and useful pur pose, substantially as set forth.

GAS REGULATORS-D. Wheeler, of Fairfield, Conn., and Issac Little, of Bridgeport, Conn.: We claim the combined in a calf anting discharge nice or simble

MUSQUITO BAR-Thos. S. Williams, of Enterprise, Miss. : I claim the folding musquito net, or bar, con-structed substantially as described.

Miss.: I claim the folding musquito net, or bar, constructed substantially as described.
SEATS AND COUCHES FOR RATEROAD CARS—Theodore T. Woodruff, of Philadelphia. Pa.: I claim the combination and arrangement of the two frames with each other and with the supports therefor, connected with each other and with the supports therefor, connected with each other and with the seats, and the other, the said frame, when spread out forming couches for two persons, on the same level with the seats, and when transformed one of the said frame substantially as described.
I also claim connecting the frame which forms the back for such seats, substantially as described.
I also claim, in combination with the other of the said frames by means of sliding hinged joints, substantially as and for the purpose specified.
I also claim, in combination with the elevated couch, when combined with the frame for an elevated couch, when combined with the other purpose specified.
I also claim, in combination with the elevated couch, when combined with the said frame so filling.
I also claim, in combination with the elevated couch, when combined with the car, by means of sliding the guryose specified.
I also claim, in combination with the elevated couch, when combined with the car, by means of sliding the guryose specified.
I also claim, in combination with the elevated couch, next to the side of the car, or the equivalent therefor, the front elevated couch, so connected with the car, substantially as described, as to admit of being let down to form part of a double couch, and thrown up towards the roof of the car when not wanted as a couch, so set forth.

towards the roof of the car when not wanted as a couch, as set forth.

SELF-AOTING PRESSES-Lester L. Bond, of Chicago, Ill, assignor to himself and Giles B. Williams, of New York City: I claim, first, The arrangement for con-necting the press beam, B, with the levers, D D, by the connecting bars, E E, whereby the press is made to operate from above and below. Second, The socket shoe, I, and the ratchet plate, H, or their mechanical equivalents, for altering and raging the power of the press, substantially as set forth and specified.

specified. MACHINES FOR MAKING UPHOLSTEEY SPRINGS-C. A. Young and S. W. Young, of Providence, R. I. : We claim, first, The cutters, or, attached to the machine, and arranged relatively with the rolls, D J, and bar, J, when the movable cutter, r, is actuated automati-cally by suitable mechanism to cut the springs as formed from the continuous wire, T. Secoud, The bar, J, attached to the lever, H, or other part of the machine or framing, when provided with a bend, I, to project over the uppermost roller, D, for the purpose of guiding and ensuring the turning or bending of the wire, T, as set forth. Third, The plates, n p, when used in connection with the shears, or, for the purpose of cutting off the aprings and bending the emis thereof, simultaneously and sub-stantially as described. IA patent was granted, this inventor Sept. 28, 1858, for

[A patent was granted this inventor Sept. 28, 1858, for a machine for making upholstery springs, and this in. vention is an improvement upon 1t. The invention consists in a cutting attachment applied to the machine and arranged to operate automatically for the purpose

of cutting off the springs and bending their ends as they are formed from a continuous wire, and there is a grea improvement in the part which bends the wire.]

MACHINES FOR MEASURING CLOTH-John W. Drum-mond, (assigner to Horace H. Day,) of New York City : I claim the combination of the measuring wheel, sub-stantially as described, in combination with the spring block, or the equivalent thereof, forholding the cloth to the periphery of the wheel, and for stopping the said wheel the moment the cloth has passed off, substantially as described as described.

COFFEE POTS-D. G. Fletcher, (assignor to himself and Henry Weisk opf.) of Raoine, Wis.: I claim the box like strainer, D. arranged with a hinged top, c, so that access can be had to the same from the inside as well as from the outside, and that the same can easily be cleaned, substantially as described.

[This is a very good coffee pot, in which all the aroma is preserved and the whole flavor of the coffeeis retained.]

REFEIGERATOR-WM. H. Lazelle, (assignor to himself and Elbridge B. Lazelle.) of Boston, Mass.: I claim the combination and arrangement of the siphon pipe. I, water space, F, and ice box. C, open and beveled at one end, substantially as set forth and for the purposes de-arribed

DRY GAS METERS-Hugh Logue, (assignor to himself and Daniel P. Vandergrift.) of Philadelphia, Pa.: I claim so constructing one of the partitions between two of the chambers of a dry gas meter that it may afford a passage for the gas from the inlet pipe to the central opening of the valve seat, substantially as and for the purpose set forth.

HEAP BRAKE-HEETY F. Mann. (assignor to himself and Wim. J. Walker) of Laporte, Ind.: I claim, first, The enchination of the adjustable cams or arms, c, with the breaker, as constructed, the whole being ar-ranged and and operated substantially as described. Second, The adjustable spring, h, as arranged and operated for the purposes set forth.

MACHINE FOR COUTING INDIA RUBBER INTO THREADS-Henry Messer, of Roxbury, Mass., assignor to Charles Rice, of Boston, Mass.; I claim the arrangement and combination of the rotating table. D, and the adjustable cutters, o., substantially as and for the purposes shown and described.

GRINDING MILLS—A. Orvis, of Niagara, N. Y., as-signor to himself and Downs and Co., of Seneca Falls, N. Y.: I caim, first, The construction and arrange-ment of cylinder, D, and concave, F, with supplement-ary cylinder, G, whereby the rhomboidal teeth, f and g, serve to adjust the parts to efficient action by means of the longitudinal movement of the collar e on the sheft

serve to adjust the parts to efficient action by means of the longitudinal movement of the collar, e, on the shaft, g substantially as set forth. I also claim the peculiar conformation of the grinding surfaces of the cast-iron cylinder, E, and concave, H, consisting of the alternate intersection of the raised and depressed corrugations thereof, in the manner and for the purpose shown and described. I claim the combination and arrangement of the two concaves, F and G, spout, i, and divided winged parti-tion, R, or its equivalent, whereby the operation of cracking and grinding in said concaves may be conjoint or separate, substantially in the manner and for the pur-pose shown and described. I claim the automatic rapper, V, arranged and oper-ated substantially as described, for the purpose of keep-ing the point free from obstructions and rendering its

RE-ISSUES.

CRACKER MACHINE-John McCollum, of New York City. Patented March 23, 1852: I claim the combina-tion of adjustable springs with a cracker cuttr and its resisting surface or bed, substantially as herein before described and substantially for the purposes set forth.

MACHINE FOR CREASING AND BLACKING LEATHER FOR HARNESS-Adolph Stempel, of New York City. Pat-ented Nov. 2, 1858 : I claim, first, The pressure roller, F, and the creasing and embossing rollers, i, in combina-tion with the color fountains, K and L, and felt rolls, M M, arranged to operate as and for the purpose set forth. Second, The arrangement of the embossing rollers. i.

form. Second, The arrangement of the embossing rollers, i, with their projection flanges, K, to operate in combina-tion with the guidea, d', substantially in the manner and for the purpose specified.

[On page 75 of the present volume of the SOLENTIFIC AMERICAN we noticed an invention by this gentleman for the same purpose as the present one, which consists in the employment of creasing or embossing rollers and a pressing roller, combined and arranged with two color fountains and felt distributors, the whole being ar ranged for creasing, embossing and coloring leather straps. There is a particular arrangement of the em. bossing rollers, in combination with guides, the rollers being provided with grooved edges, thus enabling it to its work perfectly.]

PLATES FOR BOILER HOLES AND TOPS OF STOVES-David Stuart and Richard Peterson, of Philadelphia, Pa, assignees (through mesne-assignment) of John B (Chollar, of Albany, N. Y. Patented February 6, 1849: I claim constructing a cross piece for cooking stoves and ranges with a hollow chamber and with the openings, e to allow air to pass into the said chamber, substan-tially as set forth.

c. to allow all to pass into the said thanker, subsain-tially as set forth.
GENDING AND POLISHING KNIVES—James Dodge, of Waterford, N. Y., assignor to himself and David Elake, of Albany, N. Y. Patented October 12, 1853: I claim grinding and polishing articles and forming their sur-faces upon or against the periphery of a grindstone or polishing wheel, or other analogous reducing surface, by attaching them to the periphery of a revoking drum or cylinder, substantially as set forth.
I also claim making matrices in the periphery of a wheel to which a series of articles to be ground are attached, said matrices being adapted to give the re-quired shape to the articles to be ground, so as to grind, polish and shape such articles in a uniform manner, substantially as and upon the principles set forth.
I also claim, in combination with said matrices, at-taching and supporting the articles to be ground upon the cylinder in such manner as to allow them to rock or accommodate themselves thereon, whereby their sur-faces may be shaped either convex, flat or concave, sub-stantially as set forth.
Gas LAMPS—George H. Bechtel, of Philadelphia, Pa.,

GAS LAMPS-George H. Bechtel, of Philadelphia, Pa. Seignee (through mesne-assignment) of Horstio G GAS LANPS-George H. Bechtel, of Philadelphia, Pa., assignee (through mesne assignment) of Horatio G. Stektes, of said Philadelphia. Patented Aug. 7, 1849 : I claim, first. For ming a valve within the adjustable gas chamber, P. and a seat for the said valve on the tube which contains the wick, t, so as to regulate and ex-tinguish the light when required, whether the said valve be made and arranged in the manner described, or other means substantially the same, by which similar results may be produced. Second, The employment of the safety valve, C D E, in combination with the guard, T, constructed substan-tially as described.

in combination with the guard, T, constructed substan-tially as described. Third, I also claim the guard, T, in combination with the combined burner and generator, arranged and operating in the manner and for the purpose set forth. Fourth, I likewise claim combining the generator, Q R, burner, P, ring, U, and guard, T, in a single piece, made to ascend and descend simultaneously in the manner and for the purpose substantially as set forth.

ADDITIONAL IMPROVEMENT.

APALATUS K & EVAOBATUS SAOGHARINE JUIOTS-Lymia P. Harris, of Manfield, Ohio. Patented Jan. 15, 1869: I claim, first, The application of one or more dampers, H. to the movable furnace A; also the cooling surface on the evaporator on nuected therewith, for the purposes set forth. Second, I claim the movable flue, I, as described. Third, I claim the broad hook or supporter, K, or its equivalent, as set forth.

equivalent, as set forth.

INVENTIONS EXAMINED at the Patent Office, and advice given as to the patentability of inventions, before the expense of an application is incurred. This ser vice is carefully performed by Editors of this Journal through their Branch Office at Washington, for the small fee of \$5. A sketch and description of the in-vention only are wanted to enable them to make the examination. Address MUNN & COMPANY,

No. 87 Park-row, New York. Literary Notices.

FROM WALL STREET TO CASHMERE-BY John B. Ire-land. A Journal of Five Years in Asia, Africa and Europe. S. A. Rollo & Ca., No. 29 Park Row, pub-lishers. This work contains 530 pages, and is profusely illus-trated with envirted word outs nonneged from skytchose

"This work contains 500 pages, and is profusely illu-trated with spirited wood cuts, prepared from sketches by the author, the last one being called "Preparation for a Suttee," a process of crueity which has long been abolished by the British Government, and the picture, although original, reminds us much of one which was published in the missionary trats of our juvenile days. The author does not lay claim to any peculiar merit in his voluminous notes of travel, either as regards literary skill or novelty, and in this respect it is but candor to say that there are few intelligent travelers who could not, by care and pains-taking, produce an equally readable work. This volume is taskily got up in blue and gold, and reflects much credit upon its publishers.

THE AMERICAN STAIR BUILDER .-- The art of Stair-building is one of the most intricate branches of joiner-The ADDATESTICAL COLLECT-THE STO Stati-building is one of the most intricate branches of joiner-work, and requires great skill and long practice to master; in no department of mechanism is practical mathematics so much employed to advantage, there-fore every good work on this art is of great importance, because it imparts information which has taken years of practice to acquire, and thus it is like a valuable labor-saving machine. This we apprehend, from an inspection of its contents, is the character of the "American Stair Eulider," a new book by W. P. Es-

NATIONAL RECORDER. Washington, D. C. HUMPHREY'S JOURNAL OF THE DAGUERBEOTYPE AND PHOTOGRAPHIO ARTS. J. H. Ladd -publishers, 37 Lis enard street, New York.

enard street, New York. THE AMERICAN JOURNAL OF PHOTOGRAPHY AND THE VILIED ARTS. C. A. Seely, A. M., Editor. S. ely & Farbanati, publishers, 424 Broadway, New York. WILSON'S BUSINESS DIRECTORY for 1859-60. John F. Trow, printer, 379 Broadway, New York.

PHYSICAL PERFECTION. By D. H. Jacques. Fowler & Wells, publishers, Broadway, New York.

THE LONDON QUARTERLY REVIEW, with an interest-ing series of articles. L. Scott & Co., New York.

American Howsopartic Review for June. J. T Smith & Co., Broadway, New York. HAL'S JOURNAL OF HEALTH': a capital and spirited publication. Henry B. Price, New York. AGRICUT.TURAL REVIEW. A valuable aericultura journal. Prof. Charles A. Cameron, Dublin, Ireland.

The Strongest Man in the World " Prostrated.

Dr. George B. Winship attempted to lecture last evening at Mercantile Hall, on "Physical Education."] The hall was filled to overflowing, attracted no doubt by the fame of the lecturer in relation to his prodigious feats of strength, it having been claimed for him that he was the "strongest man in the world." Dr. Winship commenced reading his lecture promptly at eight o'clock, and had proceeded but a few moments before his voice began to fail and became weak and tremulous; and before the audience generally were aware of it, he dropped directly on the platform. Several gentlemen rushed to the platform and immediately bore him to the adjoining ante-room, where Dr. Walter Channing and others attended upon him.

It was soon announced that he would go on with the lecture in a few moments, He appeared, and after apologizing to the audience, said it was the first time he had ever fainted. He then proceeded with his lecture, and had read but a few pages when be again became overpowered, retiring just in time to save himself from another swoon.] By the advice of physicians present, he was dissuaded from attempting to go on with his lecture, and it was announced that it would take place at some future time.

The audience on retiring were allowed to receive tickets or their money, most of them taking the former. It is said that on being taken from the ball his heart had nearly ceased to beat. Dr. W. accounts for the unfortunate affair on the ground that the atmosphere of the hall was close and impure. This friends however, regard it as caused by the peculiarity of appearing before a public audience for the first time.

Dr. W. has for several years given much attention to the subject of physical education. He is twenty-five years of age, five feet seven inches in hight, and weighs one hundred and forty-three pounds. He graduated at Cambridge five years ago. Lelean raise a barrel of flour from the floor on to his shoulder; can raise himself with either little finger, till bis chin is half a foot above it; [can raise 200 pounds with either little finger : can lift with the hands 926 pounds dead weight, without the aid of straps or belts of any kind. Topham, the strongest man of England, could raise only 800 pounds in the same way; and the celebrated Belgian giant could lift only 800. Dr. W. was prepared to exhibit all these feats, but the unexpected turn which events took prevented it. The strong man proved an infant.-Boston Atlas.

Ozone- What it is.

This peculiar substance, according to Pro-fessor Faraday, in a late lecture, is oxygen gas, under electrical excitement. It can be

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200	h latter is set oblique to the axis of the pinion, substan-	ing the bolt free from obstructions and rendering its action efficient, as set forth. SOFA BEDETEAD-WM. H. Tendler, (assignor to him- self and John F. Moeschlin.) of Cambridge, Mass. I Claim the improved sofa bed, constructed not only with each of its arm-rests formed in two parts and hinged to gether, arranged and applied to the back b, and bed- frame, a, as described, but with its seat hinged to the bed frame, so as to be capable of being moved with re- spect to it and the arm-rests, as specified. I also claim the combination of the pillow and foot- rests, I m E and F, with the arm-rests and seat-frame or seat applied to the frame, A, the whole being made to operate together essentially as explained. MILL DRIVERS-Ferdinand Walters, (assignor to C. F. Walters and S. H. Stout,) of Govington, Eyr. I claim the driver, d d', constructed and arranged with refer- ence to the shaft, C, andcap, c, substantially as and for the purpose set forth. HERL BOOTS AND SHORS-Alford B. Wilton, (as- signor to himself and Charles Adams,) of Dorchester- Mas.: I claim the improvement of the disbed or con- cave clastic heel as made with the air-channel, b, lead insout of the concurvity, a, and arranged substantially	BOORS AND FERIODICALE RECEIVED. THE HARF OF A THOUGAND STRINGS. A book of fun. Published by Dick & Fitzgerald, No. 18 Ann-street. BLACKWOOD'S MAGAZINE, for this month. Published by Leonard Scott & Co., No. 54 Gold-street. A re- nowned monthly magazine. THE GAS-METRE GREUX BOOK. by E. E. Perkins. A useful book for gas consumers. Published by M. Has- kell & Go., No. 103 Fulton-street. PRABLE FARMING IN AMERICA, by James Caird. M. P., an intelligent Scottish agricultural condition and capacity. Published by D. Appleton& Co., Broadway, L'INFEWTION, par Ch. Deeno-Gardissal, Ingenieur Civil, 29 Boulevard St. Martin, Paris. THE CANADIAN ACHIOULTURET. Toronto, C. W. QUARTELY JOURNAL OF ACHIOULTURE BEN. Perley	formed by passing the electric spark directly through the gas or by making the electric current pass over the exterior of a tube con- taining oxygen. Ozone destroys the colors of vegetable substances and attacks with avidity metals that simple oxygen will not act upon. It has also been found by very recent experi- ments that electrolized hydrogen possesses greater powers of reduction, than simple hy- drogen. Hitherto no useful application of ozone has been made to the arts, but we think the time is not far distant, when some new new discovery will enable it to be made very cheap ; it will then supply the place of chlor- ine as a bleaching agent.	
Ser la	istter is set oblique to the axis of the pinion, substan- tially in the manner and for the purpose described.			ine as a bleaching agent.	\$F
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