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[Reported officially for the Scientific American.]

SEED PLANTERS-H. F. Baker, of Centerville, Ind. : I do not claim, broadly, the use of clearers, in combina-tion with seed drill teeth, as this is common. But I claim the arrangement of hock-pointed edged blades, or other suitable clearers, in such relation to the points of the drill teeth to one another on the shaft, that in the revolution of the shaft they alternately come on opposite sides of the teeth, and pass down slightly below the points of the same, substantially as and for the purposes set forth.

[For a further description of this, see another col umn.]

SPINNING OAKUM-Smith Baldwin, of St. Louis, Mo. I claim, first, The employment of two series of revolv-ing, straight or knife-edged combs, J, J, arranged and operating as described, for the purpose of taking the web of carded oakum in an unbroken sheet from the

doffer. doffer. Second, The employment, in combination with the said endless moving apron, Φ , and the stationary apron, e, belonging to the first conductors. P P, of the rol-ler, S, operating as and for the purpose specified.

[A notice of this will be found on another page.]

RAILBOAD CAR BRAKES-JJ. L. Branch, I. Branch and D. W. Branch, of Charleston, S. C. : We do not claim, in general terms, the idea of drawing the upper end of the brake levers, x. X. c., towards the center of the car (thus clamping the wheels with the brake blocks) by a winding up of the chains at the end of rods, m m, for this has been done already by means of a rod passing up into a car with a wheel fixed at its upper end, and worked by a man usually called a brakeman. But we claim the drum arranged and worked as set forth.

But we claim the drum arranged and according to the forth. We claim to operate the brake blocks of a continuous train of cars, by means of a steam cylinder or hand power, in combination with the drums, levers, and chains, substantially as set forth. We also claim the drum, E, and surplus chain, E', the object and use of which is substantially set forth in the specifications, as are also our other claims.

SUPPLY-COCKS-Wm. S. Carr, of New York City: I do not claim the use and secondary supply of water, neither do I claim any peculiar arrangement of pipes, in con-nection with such two supplies and a hot water bolicr, nor do I limit myself to the manner of arranging the water-pipes shown in Fig. 2, as the same forms no part of my invention.

on my mvention. But I chaim a weighted diaphragm, x, or its equiva-lent, and seat, I, between the secondary supply and the hot water boiler, in combination with the vidve, k, or equivalent, between the primary supply and the hot water boiler, substantially as and for the purposes spa-cified.

PAINT VEHICLES—A. C. Church, of Union City, Mich.: I claim the compound for mixing paints, composed of the within specified materials, combined in the manner substantially as and in about the proportions set forth. [This is described on another page.]

SEWING MACHINES D. W. Clark, of Bridgeport, Conn. : I claim, first, Feeding the cloth in sewing ma-chines, by means of a rocker, J, arranged and operating substantially as described. Second, The employment of a hinged slide, Q', to flattenand hold the loop, substantially as and for the purposes set forth.

purposes set forth. FLOREING MILLS-Edwin Clark, of Lancaster, Pa. : I claim, in combination with the bolt, I, and hopper formed by the sides, L. M, the separate conveyors, Q W, and the sides, bd, connected togetheor, and operat-ing in the manner set forth, for the purpose of making such a separation of the ground material as will obviate the necessity of requiring the bolt to carry the material any farther than is actually necessary to bolt it-to avoid all danger of clorging, whilst conveying the sepa-rate qualities to their exit or elevators, and prevent any possibility, by the perfect separation, of returning that which is too light to be re-ground, to the stones, as explained.

BOLSTER FOR PLATED TABLE KNINDS-Orestes Cleve-land, of New York City : I claim a table knife made substantially as described.

[The object of this invention is to supply a bolster to plated knives, so that when the plating wears off the bolster, it being made of a white metal, if the blade is coated with silver, or a yellow, if gold is the plating employed, the bolster will still appear in some harmony with the blade, and the wear will not be soon discovered.]

HUSKING AND SHELLING GLOVE-Emil Cohen, of Washington, D. C. : I claim the husking and shelling glove, as described, as a new article of manufacture, when constructed and operated substantially in the manner and for the purposes set forth.

Rakes for Harvestres-Source Configuration of the property of the real of the r

purpose specified. Second, Producing the lateral reciprocating, com-bined with the lifting, movement of the rake and its ap-pendages, by means of the connected radial arms, G and G', as actuated by the crank, D, and rod, F.

SEEDING MACHINES—I. H. Conklin of Rockford, III. : I claim, first, The hoppers, j, and the hopper, F, when arranged with the bar, B, as shown, and used in con-nection with the bar, E, provided with shares as de-scribed so that the saced may. by the same mechanism scribed, so that the seed may, by the same mechanism, be distbibuted from either hopper, and sown either in drills or check rows as may be desired. Second, I claim the disk, c', attached to the wheel, A, and provided with teeth, d', arranged in connection with the disk. b', for the purpose of operating intermit-tently the bar, B, for the purpose specified.

[This invention consists in the peculiar construction of the machine, whereby it may sow either in hills, drills or broadcast, and give a greater or less quantity of

seed in a given area.] RAILEOAD CAE COUPLING-J. M. Connel, of Newark, hio: I do not claim embracing a tongue by plates, hen said tongue has a longitudinal movement between ne plates, as shown in the expired latent of Hunt & rown.

FILM Brown. But I claim the plates, a a, tongue, L, link, b, and chains, h h, in combination with each other and the vulcanized india-rubber casing embracing the plates, when the connection between plates and tongue is such as to prevent their moving longitudinally upon each other, as set forth. 120

Hydrany-Richard De Charms, of Philadelphia, Pa. : 1 do not claim to have invented a plug aud hydrant operating on the principle of wasting water by a three-way-cock, but I merely claim to have improved them (as they have been from time immemorial constructed on that principle) by a very peculiar simplification of their operation. For in respect to so much of my pre-sent improvement as pertains to the volding of the waste water, that which I do claim is-making the solid rod of the three-way cock, by which it is operated, a tube bent at the top so as to leton, stop of, and waste the water, by the simple turning of that tube as the top of a faucet. This combining of the first two with the last of these three functions in the vertical motion of a single member of the three-way-cock is what I claim as the gist of my improvement of that hydraulic machine, and this feature of my elaim, together with the provision of the two sin-tight cham-bers, and the shaft for deriving the waste water as well from the outside as from the inside of the plug or hy-drant, substantially as set forth.

LIME KILNS-H. R. Fell, of TCxas, Md. : I claim the peculiarly constructed air chambers, D D', intermediate between the inner and outer surfaces of the wall of the kiln and arranged as described, for the purposes set forth.

[A full description of this appears on page 147.]

FLOUR BOLTING—David Geib, of Mifflintown, Pa.: I claim the bolts, C D, two or more, provided with con-veyors, spouts, and clevators, combined and arranged with each other relatively as shown, or in an equivalent way to effect the purpose set forth.

[The object of this invention is to avoid the necessity of re-bolting all the meal, good and inferior, in one and the same bolt, and thereby keeping the superior portion free from those substances which darken it or render it speckled.]

ATTACIMENT OF ADJUSTABLE FOOT BOARDS TO SPLINTS-John Gruol, of New York City: I am aware that in the patent of Geo. Jarvis, 1845, a rack and pinion are used for the purpose of giving the necessary extension of the side frame, therefore I disclaim such use of racks and pinions. I claim the combination of an adjustable foot-piece D, with the board, A, substantially as set forth.

[This is a very good splint to hold fractured limbs in a

proper position while healing.]

SEED PLANTZEE-Marshall Hunt and J. H. Haines, of Rising Sun, Md. : We claim a vibrating slide formed with an offset, d, substantially in the manner and for the purpose described. Second, Giving to said slide a vibrating motion by means of cross-heads, G, having a third arm, H, ex-tending from it, substantially in the manner and for the purpose set forth.

OPERATING TELEGRAM KEYS—John J. Hayden, of Rising Suu, Ind. : I claim the particular formation of the levers into dots, lines, and spaces of any desired length, thereby securing perfect mathematical accuracy in the formation of the ciphers which compose the "Morse Telegraph Alphabet."

BIT HOLDER-B. B. Hill and S. W. Adams, of Chico-pee, Mass. : We claim the combination of the two boxes or bearings, placed at any required angle with each other, with the intervening globular connection which forms a casing for the beyeled gear.

HYDRANT-John Hyde, of New York City: I claim the application and use of a siphon to hydrants, for the purposes specified, constructed and arranged substan-tially as set described.

Consurrs—James Ingram, of New York City: I claim the fingers, d, or their equivalents, set and moving on the pipe or slide, a, and actuated by the rod, b, substan-tially as and for the purposes specified, and in combi-nation with said fingers, a, so set and actuating, I claim the clamp plate, c, on the rod, c, for the purposes specified. specified.

MEASURING THE SUPERFICIES OF BOARDS—S. C. Ken-nerd, of South Newmarket, N. H.; I claim the com-bination of the stationary ledge, B, or its equivalent, the arm or lever, C, the mechanism carried by such lever and the indicator apparatus, the whole being con-structed and made to operate cubstantially in the man-ner and for the purpose set forth.

SHINGLE MACHINE—Robert Law, of Portage City, Wis. : I claim, first, The combination of the pendulous frame, B, which receives the bolt, I', and the saw, D, ar-ranged substantially as and for the purpose set forth. Second, The peculiar means employed for securing and adjusting the bolt, I, in the pendulous frame, E, viz, the adjustable plate, I, loaded cord, K, connected with spring, L, the corrugated bottom plate, F, and lever G, with bar, b', arranged substantially as shown and de-scribed.

[A description of this invention will be found on an other page.]

CHURN-S. F. Lefler, of Racine, Wis. : I claim a churn constructed in two compartments, A and B, the one open and other closed, when provided with gate ways, x and y, and gate, G, or their equivalents, the whole being arranged in the manner substantially as set forth, whereby the creamduring the operation of churn-ing is passed in a continuous current through them, and the butter gathered together for the purposes described.

DOVERATING ROTARY CUTTERS IN THERE HEADS—G. H. Mallary, of New York City : I do not claim a spiral cutter or a cutter made straight on the outer surface of the arm. But I claim the mode described of attaching spiral cutters to the curve segmental surface of the arms by tongues and grooves for the determination of their pro-per position, and for forming recesses for the heads of the bolts by which they are affixed all as fully set forth.

PROCESS FOR DYEING SILK-Nicholas Mary Aine, of Philadelphia, Pa.: I claim submitting the fabric to the combined action of steaming, and to that of friction rollers, during or after the dyeing process, as described.

WASHING MACHINE—Samuel P. Mecas, of Killbourne, Oilo : I am aware that reciprocating wash-boards have been proviously used and arranged in a great variety of ways, and I therefore do not claim separately, either of the parts shown. I claim the arrangement and combination as shown of a lever, D, washhoard, B, arm, F, and dash-board, G, so that by the movement of lever, D, the boards, B G, will simultaneously approach each other, and act upon the clothes, each board doing its share of the work, and by a reverse movement of lever, D, the boards, B G, will simultaneously separate, and leave an open space for the admission or removal of the clothes. an oper clothes.

[This invention consists in the employment of an adjustable wash-board and a reciprocating dash-board placed within a suitable box, whereby a very efficient machine is obtained, and one that may be made to operate equally well for light or heavy articles, fine or coarse fabrics.]

coarse fabrics.] BENDING TIN-GEORGE W. MERK, of LEAVENWORTH, K. T. : I claim the two clamping bars, F and G, arranged at an angle to each other, with each leg of the angle raised from the bed, so that the apex of the angle can be raised from the bed to insert the sheets of metal, and closed down upon them to bend them, and raised again to remove the bent sheets, as described. And in combination with the described clamping bars, F and G, I claim the folding or bending bars, H and M, for bending the edges of the sheets of metal, as described. I claim the spring gage, R, so arranged that it may be raised to gage the sheets, and spring down, so that it may be removed.

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CONSTRUCTION OF BROOMS—Abner Mitchell, of Eaton, Pa.: Iclaim the metal socket, A, with shank, a, and cross bars, BC, attached, the cross bars having rods or bars, b b'f f', attached or connected at one end by joints, so that the whisks of broom corn may be secured or clamped between them, for the purpose set forth.

[This invention consists in having a metal socket attached to two clamps, whereby the whisks of corn are firmlysecuredtogether, and also the socket which receives the handle is firmly secured to the whisks of corn, so that a durable, cheap and efficient broom is obtained.]

METAL TIPS FOR TOES OF BOOTS AND SHOES-George A. Mitchell, of Turner, Maine: I am aware that in George S. McWalters' rejected application for a patent (1847) it was proposed to cover the ends of shoe lasts with metallicitys, and therefore I disclaim the applica-tion of such tips to lasts. I claim a host or when the travertee I claim a boot or shoe the toe part of which is provi-ded with a metallic tip, A, as described.

COTTON GINS-James F. Orr, of Orrville, Ala.: I claim making in the ribs or grates of cotton gins, either jointed or rigid, one or more openings for the passage of seed and dirt, as set forth.

ELECTRO-MAGNETIC SPEED GOVERNOR-George M. Phelps, of Troy, N. Y.: I claim causing a centrifugal or other suitable speed governor to regulate the motion of the machine or instrument with, or by which such governor is driven, by making the governor close and break a current of electricity, which operates an electro-magnetic contrivance, arranged to work whatever de-vice or mechanism is employed, to change the speed of the machine or instrument, as described.

CONSTRUCTION OF SHIPS—John Reeves, of Brooklyn, N.Y.: I claim tying the blige timbers or planks of a ships' hull together, and also preventing vibrations of the sides of the hull, by means of strong knees, which conform to the curve of the blige and diagonal braces, which attach to said knees, and bear in opposite direc-tions through said knees against the blige and top sides of the hull, substantially as and for the purposes set forth.

[For description of this invention, refer to another page.]

ATTACHMENT FOR LIGHTING LANTEENS—Albert C. Richard, of Newtown, Conn.: I claim the spring, E. provided with the sockets, c, and the rod, F, provided with the catch, g, in combination with the rod, i, and corrugated plate, j, the whole arranged and operated in the manner and for the purpose set forth.

[This is described on another page.]

MANUFACTURING PAPER—Stephen Rossman, of Stuy-vessnt, N. Y. : I am aware that the use of guide rollers in various relations to the main cylinders is common in paper machinery; examples are seen in the patents of G. W. Turner, January 27, 1852, and D. G. Jones, De-cember 11, 1855. I make no claim to anything con-tained in those devices. But to the best of my know-ledge and belief it is new, in the manufacture of paper, to lift the web from the press roll, as I have described. I claim lifting the web of paper from the upper press roll, c, by means of a lifting roll, F, arranged and oper-ating as set forth.

[We have noticed this invention in another portion of this journal.]

SHEARS FOR CUTTING BANK NOTES, &c. —Stephen P. Ruggles, of Boston, Mass. : I claim the keeping of the moving blade in close and equal contact with the sta-tionary one throughout their entire length, and the al-lowing of the blades to separate at the heel when in the act of cutting, as described and represented.

LIGHTENING SEA-GOING STEAM VESSELS—John C. F. Salomon and George W. Morris, of Baltimore, Md.: We claim so attaching the engine and support of the boiler to movable or detachable bottoms and sides of the ves-sel, that they may be dropped out, and thus relieve the vessel of its weight, in the manner set forth.

HARNESS SADDLES-Henry Sanders, of Utica, N. Y.: I claim the flanged plates, A and B, when constructed and arranged in relation to each other, in the manner as and for the purposes set forth.

as and for the purposes set for i. RAILEGAD CAR COUPLING—John Schneider, of Chi-cago, Ill.: I Claim the circular rotating hook bolt, in combination with tumbler and trigger, when so con-manner set forth, that is to say, when both the coupling and uncoupling is effected automatically, by lifting the bolt for the passage of the link, either by the direct ac-tion of the link against the tumbler, or by the down-ward pressure upon the trigger, in, and by the act of the purpose specified.

Overter OPENERS—John Selpel and William Rupp, of Washington, D. C.: We claim the hollow shaft, in com-bination with the double levers, for operating the ad-justable knife, and these with the movable bed plate or rest, the whole being relatively arranged, and con-structed as set forth.

TUENING LATHES—William D.? Sloan, of New York City : I claim the combination of the series of radially sliding rests, as described, in combination with the se-ries of shifting mandrels, as and for the purpose speci-fied.

DENTISTS' OPERATING CHAIR-George W. Tripp, of Auburn, N. Y.: I claim first, The arrangement of the holding and releasing catches, and of the adjusting mechanism, as described, so that all the adjustments can be made from the rear of the chair without stoop-ing. Ing. Second, The combination of supporting rods, l, with the inclining link, r, arranged as described, for the pur-pose set forth.

RAILS FOR RAILEOADS—Levi B. Tyng, of Jersey City, N. J. : I claim a solid enlargement of the ends of rail-road rails, in order that they may rest more firm on their foundation, and for increasing their strength and solidity, thereby rendering them less liable either to fractures, wear, unevenness or destruction at their ends or joints, essentially in the manner described and set forth.

POTATO PLANTERS—H. Wainwright and S. T. Wil-liams, of Farmingdale, N. J. : We do not claim the em-ployment of a fork for drawing potatoes from a hopper in planting, being aware that such has been before used. But we claim the combination of a tripping fork, H, with a reciprocating trough, J. so that the fork will, by a uniform movement, alternately take a potato from the trough and deposit it in the drill tube, as specified. We also claim the arrangement of the inclined recip-

We also claim the arrangement of the inclined recip-rocating troughs, I I, with revolved winged rollers, i i i, operating as described, in combination with the hop-per, L, provided with removable bottoms, m m, where-by the potatoes are anyplied as fast as required to the the troughs, as described. We also claim the wedge-like projections h h, in com-bination with the reciprocating trough, in the manner and for the purpose set forth.

HARVESTERS—Jesse Whitehead, of Manchester, Va. : I am aware that concave wheels have been used hereto-fore on harvesters, therefore I make no claim to a confore on narvesters, therefore I make no chain to a con-cave wheel as such. But I claim the concave supporting wheel, D, con-structed and located as shown and described, in combi-nation with the recess in the shoe, for receiving the rim of said supporting wheel, the whole being construct-ed in the manner and for the purposes set forth.

MATHEMATICAL DIVIDERS—John E. Earle, of Leices-ter, Mass, (assignor to himself and Samuel Sheplerd, of Nashua, N. H.): I claim operating compasses, divi-ders or calibers, by means of a circular revolving cam, as described.

LATHE FOR TURNING, WOOD-Amander N. Wilcox, of Watervliet, N. Y. : I do not claim the employment or use of slides carrying cutters, and operated by pat-terns or guides acting in combination with springs. But I claim the use of cutterslides, M and N, moving vertically, and acting by their own weight, in combina-tion with the levers, a h, rods, d e, and pattern guides, L, constructed and arranged to operate the cutters. E and G, as described. Turther claim the combination of the cutter slides and cutters, arranged and operated as described, with the slides, H and J, and their operating mechanism, so as to support the article being turned close to the cut-ters, excepting when the square parts of the article need passage through the said slides, substantially as described.

OSOILLATING STEAN ENGINES—Adam Wood, of Pitts-burgh, Pa. : I do not claim the exhaustion of the steam through the valve. Nor do I claim, broadly, the attachment of the steam chest to the cylinder to oscillate therewith, and operate in combination with a stationary valve. I claim the employment of a treble-armed centrally balanced valve, D, as described. che in

This invention relates to the arrangement of the team-chest, the valve, and the passages for the induction and eduction of the steam to and from the cylinder.]

SEWING MACHINES—George Fetter, (assignor to him-self and Edward Jones,) of Philadelphia, Pa. : I cluim first. The combination of the looper R, with the spindle N, when the former is rendered adjustable to the latter, in the manner described, and when the spindle is al-lowed to turn so as to accommodate itself to the lateral movement of the looper. Second, The combination of the finger, p, with the looper, R, in the manner and for the purpose specified.

looper, R, in the manner and for the purpose specified. Hommy Mn.ta.-Ezra Fahrney, of Deep River, Iowa, assignor to John Donaldson, of Mount Mr rris, III.): I wish it to be distinctly understood that I make no claim in this application to an intermittent feeding and dis-charging device for hominy machines, having two slides, one arranged at top, and the other at bottom of the cylinder, said slides being operated alternately by a cam wheel, driven by a worm wheel and screw shaft, as such an arrangement was patented by me in 1855. But I claim as an improvement on the mill patented to me on the 15th of May, 1855, the employment of two self-closing hinged flap valves, i m, at the top and the other at the bottom of the cylinder, A, in combina-tion with a ratchet, C, arranged loosely on the hub of the cylinder, and having two pins, g h, on its face, and being actuated slowly by a pawl, f, which is connected with a crank shaft. b, by means of a vertical rod, G, and jointed elbow lever, d e, as and for the purposes set forth. This hominy mill has an intermittent feeding and

[This hominy mill has an intermittent feeding and discharging device, so that only a certain quantity of corn is admitted into the mill at once, and when that is thoroughly broken it is discharged, and a fresh quan tity admitted.]

PLATFORM SCALES—James Kelly, (assignor to himself and John Sherry,) of Sag Harbor, N. Y.: I claim the combination of the bars, B, by linking together the ex-tremities of the arms, c, when the said bars and arms arc arranged in respect to each other, as set forth.

[Full particulars of this invention will be found in another column.]

DETERMINING THE ARTIFICIAL HORIZON FOR QUAD-RANTS, &C.—James C. Lane, of Brooklyn, N. Y., (as-signor to himself and T. H. Barnes, of New York City): I claim the combination of the eye-piece, hair line and vertical mirror, when attached to, and used in connec-tion with, a sextant, quadrant, or similar instrument, in the manner and for the purpose set forth.

INSTRUMENT FOR OPENING CANS-EETA J. Warner, (assignor to himself, William H. Warner and Rufus IC, Hitchcock.) of Waterbury, Conn. : I claim the combi-nation of the curved cutter, a, with the looped bar, c, when constructed and made to operate, substantially as described. DESIGNS.

STOVES-N. S. Vedder, of Troy, N. Y., (assignor to W. Eddy, of Waterford, N. Y.)

COOKS' STOVES-Garrettson Smith, Henry Brown and Samuel H. Sailor, of Philadelphia, Pa., (assignors to Alexander Small and E. G. Smyser, of York, Pa.

STOVES-Charles J. Shephard, of Brooklyn, N. Y. ADDITIONAL IMPROVEMENT.

PLOWS-Beniah C. Hoyt, of Port Washington, Wis. Patent dated September 6, 1856 : I claim the adjustable axle, H, with angular journals, C H', and adjusting arms, I I', in combination with the stirrup or standard, D, rotary mold-board, or mold-boards, G, and ground propelling or driving wheel, N, as and for the purposes set forth.

Our Patent Business.

During the last three weeks, sixty-five patents have been issued to applicants whose papers were prepared at the Scientific American Patent Agency. This is unprecedented in the history of inventive progress, and cannot fail to attract the attention of all who have patent business to transact. We pay special attention not only to the preparation of applications, but also to rejected cases. We invite all who have such cases to correspond with us. Our force is equal to any amount of business of this character that may come into our hands.

Circulars of information sent free.

Philadelphia Statistics.

The Pennsylvania Inquirer publishes certain statistical information of the above city, from which we extract the following. In 1857, the mean temperature for the whole year was $51^\circ~01'$; 1856 being but $51^\circ~20'$, the average of the whole year differed but a part of a degree from the preceeding. In 1856 there fell 43.92 inches of rain, while in 1857, 42.20 inches fell-a decrease of over one inch. The quantity of gas made in the three works belonging to the city was 470,000,000 cubic feet.

A MAGNIFICENT electrical machine has been constructed in Boston for the University of Mississippi.