No. 29.915. Motor for Sewing Machine.

(Moteur pour machine à coudre.)

Emma F. Briggs, San Marcos, Texas, U. S., 26th September, 1888, 5 venrs.

Claim.—As an attachment for the stand of a sewing machine, adapted for interchangeable motors, the dependent hook, designed to receive and support, when out of use, either the pitman or the inclined hand rod, substantially as described.

No. 29,916. Smoking Machine. (Famigateur.)

George S. Boin, Salinas, Cal., U.S., 26th September, 1888. 5 years,

Claim.—1st. The smoking machine, consisting of the upright fuel-box, having hinged nozzlo top, perforated draft-plate, and blower attached thoreto by braces, and having its tapering chute entering the centre of the base to communicate with the air chamber below the equalizer plate, substantially as specified. 2nd. The smoking machine, consisting of the upright fuel-box, having upper and lower openings with doors, the hinged nozzle-top, the inside perforated draft-plate, the blower attachment and its braces and the protect standards, substantially as specified.

No. 29,917. Stove Pipe Damper.

(Clé de tuyaux de poéle.)

James E. Fenner, and Henry G. Dixon, Delphi, N.Y. U.S., 27th September, 1888; 5 years.

Claim.—The combination, with the stove pipe section A, of the plates p, p secured lengthwise and respectively at opposite sides of the interior of said pipe section, disconnected from each other to leave a single passage in the pipe section, a series of diaphragms a, a proted independently of each other to the said plates at intervals of their lengths, couplings cc connecting the alternate diaphragms at one side of the axis thereof, and connecting the interinediate diaphragm at the opposite side of the axis thereof, and the adjusting rod hattached to one of said diaphragms, substantially as described and them.

No. 29,918, Electric Railway Station Indicator. (Indicateur electrique de station de chemin de fer.)

Georgo H. Kirwin, Christian Stegmaier, and Frederick Stegmaier, Wilkesbarre, Penn., U.S., 17th September, 1888; 5 years.

Georgo H. Kirwin, Christian Stegmaier, and Frederick Stegmaier, Wilkesbarre, Penn., U.S., 17th Septembor, 1888; 5 years.

Claim.—1st. The combination of the station indicator, the motor to operate the same, and provided with the switch wheel and arm or contact, the armature having the arm to engage and disengage the motor for the purpose set forth, the electro-magnet to operate the armature, the battery, the circuit closer, the bell and the open circuits connecting the electro-magnet to the circuit closer and the battery, and connecting the bell, the switch and the battery, substantially as described. 2nd. The combination in a station indicator, of the shaft F, the wheel M loose thereon, the motor having the operating wheel engaging wheel M, the clutch to connect the said wheel to the sand shaft, the lever to operate said clutch, the shaft W, the spring U connected thereto, and the scroll or apron rolled on the shaft W and connected to the shaft F, whereby when the latter is rotated the scroll will be unrolled from the shaft W onto the shaft F, and the springs will be wound, substantially as described. 3nd. The combination of the spindle S, the spring U attached thereto, the shaft W having one end journalled in a suitable bearing and detachable therefrom, the opposite end of the said shaft being secured to the spindle, the operating shaft F, the scroll normally rolled on the shaft W, and having its free end deinchably connected to shaft F, the wheel M loose on shaft F1, the clutch to secure said wheel thereto, and the motor having the wheel engaging and wheel thereto, and the motor having its free end deinchably connected to shaft F, the tweet engages and wheel thereto, and the motor having the wheel engaging and wheel the connected in open circuit with the switch wheel and with the battery, the armature having the arm provided with a switch wheel, and with the revolving cam Li having the notch M2, the annunciator connected in open circuit with the switch wheel and with the battery the armature having the arm p

No. 29,919. Car Coupling. (Attelage de chars.)

Heinrich Somerfeld, Canton, and Archie Brown, McPherson, Ks., U.S., 27th September, 1888; 5 years.

Claim.—1st. In car couplings, the link C having handles D, in combination with the bumpers having recesses a and slot at, and provided with sliding plates F operated by privated levers H, an the manner shown and herein specified. 2nd. The combination of the bumpers A and B, provided with sliding plates F actuated by springs it, and levers H with the links C, having cross-bars c to engage with the recesses a and slots at, all constructed and arranged as herein shown and set forth. 3rd. The combination of the humners A and B, provided with sliding plates F actuated by springs if and pivoted levers H, with the links C, having cross-bars c supported by springs E, and arranged to engage with the slots at, and recesses a, in the manner and for the purpose herein specified. 4th. The link C supported on adjustable springs E, and provided with handles D, in combination with the humners A, B, having recesses a, and slots at, and provided with shiding plates F actuated by springs if and pivoted levers H, all operating as shown and set forth. 5th. The car coupling herein described, consisting of the humpers A, B, provided with sliding plates F actuated by springs if, and levers H, and having springs I, in combination with the link C having cross-bars c, and arranged to engage with the slot at and recess a, all as shown and specified. 5th. In car coupling, the spring-actuated sliding plate F, and levers H arranged to secure the link C having handles D in the slotted

groove a in the bumpers A. B. provided with with springs E for supporting said link C, and all constructed and arranged as shown and sprinfed. 7th. In a car coupling, the combination, of a link C having handles D, and cross-bars c with bumpers having slotted grooves a, and arranged to engage by a movable sliding plate, and pivoted levers attached thereto, in the manner and for the purpose herein decombed. described.

No. 29,920. Mathematical Games.

(Jeu de mathématiques.)

Louise Martane, Paris, France, 27th September, 1888; 5 years.

-The herein described mathematical game, consisting escontrolly of a board divided into squares, as described, and checkers bearing numbers, mathematical signs, the word." Proof," and blank checkers, substantially as and for the purpose described.

No. 29,921. Utilization of Slate, Slate Waste, Black Grit, or other similar, or like waste material and in the Manufacture of Glass therefrom. (l'tilué de l'ardouse et de la grés noire dans la fabrication du verre,)

William J. Parry, Coetmor Hall, John T. Welch, Penthyn, North Wales, Great Butain, Andrew Burns, Montreal, Que., 27th September, 1888 : 5 years.

Claim.—1st. In the manufacture of glass, the fusion of slate or slate waste, as described, and further manufacturing it as described, substantially as set forth. 2nd. In the manufacture of glass, the process which consists of pulverizing slate or slate waste, as described, adding thereto a flux and heating the mass to fusion, and further manufacture of glass, substantially as described.

No. 29,922. Floor Mats and Matting.

(Natte pour plancher.)

John B. Carr, Montreal, Que., 28th September, 1888; 5 years.

Claim.—1st. A mat or matting composed of rows, or disks A, set edgewise vertically and arranged to make intervening interstices B, and connecting rols C, as set forth. 2nd. A mat or matting composed of disks A, provided with holes a,b, and having rols C passing through said holes, the alternate disks intervening, the alternate disks on the next row to form interstices B, as set forth. 3rd. A flexible mat or matting consisting of disks A provided with holes a,b, and sleeved laterally on rols C, and alternately adjusted to make intervening interstices B, said rods provided with ends to retain the disks thereon, substantially as set forth. 4th. In a mat or matting, the combination, of the disks A having holes a,b, and rols C provided with head d, and nuts to compress the disks sleeved on said rods, and the disks alternately arranged to form interstices B vertically, substantially as set forth and for the purpose described. and the disks alternately arranged to form interstices substantially as set forth and for the purpose described.

No. 29,923. Machines for Making Barbed Wire for Fences. Machine pour forre le fil de fer barbelé pour clôtures.)

John W. Govier, Springfield, Miss., U.S., 28th September, 1888; 5

John W. Govier, "Springfield, Miss., U.S., 28th September, 1888; 5 years.

Claim.—Ist The combination, with the shaft B and a cam C having a groote e provided with a point ex, of a lever l having a roller ex, and adjustable plunger I, substantially as shown and described. 2nd. The combination with a shaft B and eccentric E, of connecting rod Mislever ma, punch N and de Ns, substantially as shown and described. 3rd. In combination with a shaft B and ecc while D, of a crank wheel dx, pitman d, shatted arm K, adjustable feed rollers ks, ko, and eccentric lever kiz, substantially as and for the purpose specified. 4th. In combination, with rollers kiz, know and feed rollers ki, ko, not of which has adjustable bearing upon rods k0, provided with springs kix, and a cam lever kiz for tighteuring the same, substantially as shown and described. 5th. The combination, with the sprocket wheels k0, and feed rollers L, L2, of shaft B having gear connection with the crank wheel W3, pitman W2 provided with an arm l1 having pawls for driving the said sprocket wheels and rollers by means of ratchet wheels, substantially as shown and described. 6th. The combination, with shaft B and cam F, of a lever O and shear P, stationary shear L, sudstantially as shown and described. 6th. The combination, with shaft B and cam F, of a lever O and shear having points g, and a groove g2, and holes g1, substantially as and for the purpose specified. 8th In combination with a shaft B, and a cam II having a groove h and a point h2, of a lever I having a roller r2 and an adjustable rod 1 provided with a head V, substantially as and for the purpose specified. 8th In combination with a shaft B, and a cam II having a groove h and a point h2, of a lever I having a roller r2, and an adjustable rod 1 provided with a lead V, substantially as and for the purpose specified. 10th The combination, with a shaft B and ggar for operating the rack, and fingers for feeding the wire into the machine from which the barbs are cut.

substantially as and for the pur