and an extended yielding base or foot flange, substantially as specified. 5th. In a dumping cart or vehicle, the elastic rubber pedestal N having an extended base or foot flange by in combination with the metal bearing as, having a seeketed fit within said pedestal, essentially as described. 6th. In pivot supports for dumping carts or vehicles, the metal bax or upright O, constructed with a hollow body part having a vertical slot of in its inner face or side, an extended bare and a mud guard dy upon its actor face or side, as extended bare and a mud guard dy upon its actor face or side, essentially as described. 7th. In pivot supports for dumping earts or vehicles, the embination of the clastic rubber pedestal N, having a base flange by the scoketed metal bearing at and the metal is a crupical O sented to enclose said pedestal and bearing, and provided with a vertical slot cy in its inner face or side, substantially as specified.

No. 29,988. Hot Water Attachment for Stoves. (Appareil à eau chaude pour poèles.1

Gilbert T. Brewer, Hobakon, New Jersey, and Francis J. Haman, New York, N.Y., U.S., 13th Getaber, 1888; 5 years.

New York, N.Y., U.S., 18th October, 1888; 5 years. Plaint-lst. The combination, with a cylinder or barrel stove, of the hot water attachment, consisting of a tank seated on the top of the stove, the boiler supported on a level with and extended in contact with the shell of the are-pot, and the circulating pipes connecting the tank with the boiler. 2nd. The combination, with a stove, having the interior recess f in the Bre-box, of the bot water attachment consisting of a tank a seated on the top of the stove boiler c, bested in the recess f in the shell of the fire pot, and the circulating pipes d. e. connecting the tank and the boiler, substantially as described. 3rd. The combination, with a stove, having the interior recess f in the fire-box, of the hot water attachment, consisting of tank a seated on the top of the stove boiler c, located in the recess f in the shell of the fire-pot, and the circulating pipes d, e, connecting the tank and the boiler, and boiler and tank having other circulating pipes, as dt, et, for heating purposes, substantially as described. as di, et, for heating purposes, substantially as described.

No. 29,989. Seat for Bath Tubs.

(Siège pour baignoire.)

George B. Sloat, Philadelphia, Penn., U. S., 15th October, 1888; 5

years.

Claim.—1st. In a sent for bath-tubs, the combination, with the seat proper A, of the attached unturned arms or hangers B, B, adjustable in and out relatively to the length of the seat, and provided with upper stiding supports or projections f, f, essentially as shown and described. 2nd. As an improved article of manufacture, a bath-tub seat, consisting in the seat proper A, having longitudinal growes in its under side, the oppositely-arranged 2-shaped bangers B, the lower horizontal members of which are longitudinally slotted and enter the growes from opposite ends of the seat, and the set screws oxidending through said slots for holding the hangers in any desired position, substantially as set forth.

No. 29,990. Breasting Attachment for Boot and Shoe Heeling Machines. (Appareil pour façonner les talons de chaussures.)

Martin C. McGenness and John Tweedie, Jefferson Miss., U. S., 15th October, 1838; 5 years.

Martin C. McGenness and John Tweedie, Jefferson Miss., U. S., 15th October, 1838; 5 years.

Claim.—1st. In a breasting attachment for heeling machines, the or mbination berein described, with a block, of a knife held to stide certically in one end of the said block, a nut held on the said knife, and sustantially as shown and described. 2nd. In a breasting attachment for beeling machines, the combination herein described, with a block, of a knife baying a dovetailed plate held to stide in one end of the said block, a nut secured in a recess of the said plate, a screw-rod screwing on the said nut, and a disk formed on the said screw-rod, and resting on a support formed on the said screw-rod, and resting on a support formed on the said screw-rod, and resting a support of the said block, a block, of a knife baying a dovetailed plate, a screw-rod and resting on a support of the said block with a block, of a knife provided with a plate held to stide vertically at one end of the said block, a nut held in the said plate, a screw-rod screwing in the said nut, a notched disk formed at one end of the said continuity of the said block, and plate, a screw-rod screwing to the said nut, a notched disk formed at one end of the said screw-rod and resting on a support of the said block, and pring-pin adapted to engage the notches of the said block, and armag-pin adapted to engage the notches of the said block, and armag-pin adapted to engage the notches of the said side, substantially as shown and described. It in a breasting attachment for heeling machines, the combination, heroin described, with a block, of a knife held vertically adjustable at one and of the said block, substantially as shown and described. Sth. In a breasting attachment for heeling machines, the combination heroin described, with a block, of stipping fingers held to slide on the bottom of the said block, and aright and left-handed screw-rod engaging the lugs on the gripping fingers, and held to slide on the bettom of the said luck, and adapted to engage the

No. 29,991. Stanchion for Securing Cattle within the Stables. Stalle de Betuils

Henry C. Miner, Stafford, New York, P Y., U S., 15th October, 1888; 5 years.

Syerrs.

Claim.—1st. The combination, with the supporting frame, having the upper beams C and lower beam D. of the swinging stanchion E, the locking bait it, having the offsets g, inclined shem if and downward spring-supporting lever, the spiral spring h, the spring returning pin h; and the staples g, substantially as and for the purpose hereinbefore set forth. 2nd. The combination, with the supporting frame provided with the support beam, of the swinging stanchion, the inclined half such in the same, and the brigged looking bail having the uprising operating handle, substantially as and for the purpose hereinbefore set forth. 3rd The combination, with the supporting frame, having the upper and lower beams, and the swinging stanchion, of the stop block F believed the upper beams and the spring/within said block for opening said stanchion, substantially as and for the purpose hereinbefore set forth.

No. 29,992. Bench Plane. (Rabot.)

Philippe Nicol, Stc. Pudentienne, Que., 16th October, 1888; 5 years. Claim.—1st. The combination of the wedge and plane from holder c, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the plane block A, which is reduced to half the ordinary thickness, and from holder C, substantially as and for the purpose hereinbefore set forth,

No. 29,993. Combined Punching and Shearing Machine. (Cisalles et poinçon combinés.)

Evangélisto Guertin, Sherrington, Que., 17th October, 1888; 5 years. Reclame.—Une cisaille et poincon caudinés, composes des branches C et E: articulés en a, b. c, d. e, f. munies des plaques D et H. des guides F, F; et P, des bras M, M:, M2, et J, J;, svec les pièces annexes N, G;, Ii, et, d. poincon K, Kl, L, I;, I, et out tel que cidessus décrit et cambiné de la manière sus indiquée pour en arriver aux fins sus-montionnées.

No. 29,994. Improvements on Machines for Making Picket Fences. (Perfectionnements aux machines à cloiures métalliques.)

Lyman T. Curtis and Theodore J. George, Flint, Mich., U. S., 17th October, 1883; 5 years.

Lyman R. Lurtis and Theodore J. George, Flint, Mich., U. S., 17th October, 1888; 5 years.

Claim.—1st. In a machino for making picket fences, the combination of the twisters H, each composed of two frames which are secured to the end of the operating shaft, and each frame provided with two holes through which the wire passes, with a reci I which is journalled in each frame, and which recis are carried around with the twisters, substantially as shown and described. 2nd. The combination of the shaft R, provived with the pulleys U. Q, the chains for connection with the shding table and with the treadle and the seas. W upon the ends of the shaft, the discs being made of greater diameter than the pulleys, so as to prevent the pickets coming in contact with the pulleys, so as to prevent the pickets coming in contact with the pulleys, substantially as set forth. 3rd. In a machine for making picket fences, the combination of the wire twisters, the shding table provided with devices for bodding the pickets, guides or ways L, provided with stop-pins, the counter-weight connected to one and of the table, the operating shaft provided with pulleys U, chause by which the shaft; substantial as specified. 4th. In a fence making machine, the combination o, he main frame, the wire twisters, the shaft X having an operating wheel to no end, and the series of hooks At swivelied in said shaft, as and for the purposes specified.

No. 29,995. Apparatus for Supplying Combustible Fluid to Oil or Gas Motor Engines. (Apparel pour ali-menter au moyen de fluide combustible les machines à huile ou à gaz.)

The Petroleum Power Co., Lendon, Eng. (assigned of Gaston Bagot, Brussels, Belgium), 17th October, 1888; 5 years.

Brussels, Religium), 17th October, 1889; 5 years.

Claim—1st. The construction and use of apparatus for supplying combustible fluid to an oil or gas motor engine, such apparatus consisting of a vessel B heated by products of combustion discharged from the cylinder, and provided with an injector M. 5, so arranged that a regulated quantity or air drawn in during the charging stroke causes off or hydro-carbon to flow in regulated quantity into the vessel in finely subdivided condition, and to impinge on the heated material of the vessel B, whereby it is converted into vapor or gas, which, mixed with air, constitutes the combustible charge, substantially as described. 2nd. For starting vaporizing apparatus, such as is referred to in the preceding claim, the construction and use of a lamp, consisting of the oil vessel P, containing a wire wick Q, baving above it an orifice R and chimney S, substantially as described.

No. 29,996. Manufacture of Illuminating Gas. (Fabrication du gaz d'écloirage.)

Animal Carbon Patent Gas Co. lassignee of Joseph E. Wren), Sydney, New South Wates, 17th October, 1888; 5 years.

Claim.—lst The manufacture of illuminating and from animal fat alone by molting, and then feeding such melted material into a gas, substantially as herein described and explained. 2nd. The contrivance for feeding the melted fat to the retort, such contrivance having a chamber in it to trap the lower end of the supply pipe, and thus pre-