small quantities under pressure from a storage tank, an air compressor and feed-pipe, a connection from said air-feed pipe into the carburetor, and a pressure valve in said connection, substantially as described. 2nd. The herein described process for manufacturing gas, the same consisting of a carburetor into which bydro-carbon oil is diffused or sprayed, and brought into intimate contact with compressed air, a storage tank from which the bydro-carbon is fed automatically in small quantities into the carburetor, an air-feed pipe receiving compressed air from a suitable air-compressor, a connection from said air-feed pipe into the top of the storage tank, a check valve in said connection for maintaining a constant pressure of air on the oil in the storage tank, a connection from said air-fieed gipe into the top of the storage tank, a check valve in raid connection for maintaining a constant pressure of air on the oil in the storage tank, a connection from said air-pipe into the carburetor, and a pressure valve in said connection into the same consisting for a carburetor, and a pressure valve in said aconnection into the top from which the oil is automatically fed in small quantities under pressure, an air-feeding connection into the bottom, and a vertical series of spiral planes forming an interrupted spiral path adapted to diffuse and spray the oil by the air current flowing in an opposite direction, substantially as described. 4th. In an apparatus for manufacturing gas, the same consisting of a carburetor, a pressure valve in the air-feed connection with the storage tank, a pressure valve in the air-feed pressor, an air compressor, a feed pipe and connections with the storage tank, a pressure valve in the air-feed connection with the carburetor. A purifier, a valve controlled connections with the storage tank, a pressure valve in the air feed one said purifier and the air-feed pipe, and an exhaust pipe from said purifier, all arranged to operate, substantially pathet degrad purifier and the air-feed pipe an

No 35,349. Machine for Insulating Electrical Conductors. (Machine à isoler pour conducteurs d'électricité.)

Charles T. Stetson, Hanson, Massachusetts, U.S.A., 4th November,

Charles T. Stetzen, Hanson. Massachusetts, U.S.A., 4th November, 1890; 5 years.
Claim.—Ist. A machine for weaving insulated wire covering, provided with heddle mechanism, consisting of independent vertically guided beddle rods actuated by a construction of the second motion, substantially as described. 2nd. In a machine for weaving insulated wire covering, heddle rods coupled in pairs, connecting rod motion, substantially as described. 2nd. In a machine for weaving insulated wire covering, heddle rods coupled in pairs, connecting rods, substantially as described. 3 and in the recting rods, substantially as described. 3 and in the recting rods, substantially as described. A static section of the static section in the section of the static section in the section of the static section for the static section for the static section of the static section in the section with a section with a static forming a still spot at each of the stroke of the heddle rods, thereby forming a still spot at each of the stroke of the heddle rods, thereby forming a still spot at each of the stroke of the heddle rods, thereby forming a still spot at each for the stroke of the heddle rods, thereby forming a still spot at each with weels ⁴, in combination with a still spot at each with wheels ⁴, in combination with a still spot at each with wheels ⁴, in combination with a still frame provided with the circular flanged guard E¹, secured to the outer circular transformer form leaving the track, substantially as described. The frame is prevented from leaving the track, substantially as described. The machine for weaving insulated wire covering, wheels F, each of the stroke of the heddle rods, thereby the sing stude with exist section. The machine for weaving insulated wire covering, a shuttle frame is prevented from leaving the track, substantially as described. The machine for weaving insulated wire covering, wheels F, each of the shutt

No. 35,350. Brush. (Brosse.)

Louis Strickel, Detroit, Michigan, U.S.A., 4th November, 1890; 5 years.

Louis Stricket, Detroit, Michigal, C.S.A., the November 1007, 5 years. Claim.—1st. The herein described brush head, provided with grooves and sockets communicating with said grooves to receive the stock, substantially as described. 2nd. The herein described brush head, beveled on its under surface at the ends, and provided with longitudinal grooves, each having angularly-extended sockets, com-municating therewith at the ends of the groove, substantially as and in the manner described. 3rd. The improved brush, herein de-scribed, formed with a head provided with longitudinal grooves, each having angularly extended end sockets communicating therewith, said bead having, in combination, the stock or fibre, a binder for each said groove, and its communicating end sockets, said stock and binder forced into said groove and its communicating and sockets, all substantially as and in the manner described. 4th. The im-proved brush, herein described, consisting of a head bevelled on its lower surface at the ends and provided with longitudinal grooves, each having angularly extended end sockets communicating there-with, said groove and its communicating end sockets, the ends of the sock said groove and its communicating there-with, said bead having, in combination, the stock, a single binder for each said groove and its communicating end sockets, the ends of the binder bent into said sockets, and naits D, to hold the binder for each said groove and its communicating end sockets, the ends of the binder bent into said sockets, and naits D, to hold the binder for each said groove and its communicating end sockets, the ends of the binder bent into said sockets, and naits D, to hold the binder for each said groove and its each and being intact. substantially as de-soribed. 5th. The improved brush, herein described, formed with a

head provided with longitudinal grooves, each having end sockets communicating therewith, said head having, in combination there-with, the stock or fibre, a binder for each of said grooves and its communicating end sockets, ali abstantially as and in the manner described. 6th. In a brush, a head formed in a single integral piece and provided with a longitudinal groove, having end sockets communicating therewith. and in combination therewith, the stock or fibre, a single binder foread into said groove and communicating end sockets, the extremities of said binder bent into said end sockets, substantially as set forth.

No. 35,351. Oil Burner. (Bruleur d'huile)

John Krehbiel, Kalamazoo, Michigan, U.S.A., 4th November, 1890; 5 years.

D years. Claim.—Ist. In an oil burner, a wick, composed of an inner and outer tube forming an annular space between them, the lower portion of which is filled with a textile fabric, and the upper portion with refractory material, substantially as described. 2nd. In an oil burner, a wick, composed of an inner and outer tube, forming an annular space between them, the lower portion of which is filled with a textile fabric, and the upper portion with refractory ma-terial molded into shape and joined with an annular meeting face on top of the textile portion, substantially as described. 3rd. In an oil burner, a wick, composed of an inner and outer tube forming an annular space between them, and detachably secured together by means of spacing pins secured to the inner tube, of a textile fabric secured in the lower portion of the annular space between the tubes, and an angular meeting face between the upper portion of the tubes, and an angular meeting face between the upper and lower portion of the wick, substantially as described. 4th. In an oil burner, the inner concentric air tube F, and a wick consisting of an inner and outer metallic tube detachably and concentrically secured together by means of spacing pins H, secured to the inner tube, and in inner and outer metallic tube detachably and concentrically secured together by means of spacing pins H, secured to the inner tube, and textile table the tube, sand a refractory material in the upper portion of the the tube shall with develop the portion of the annular space between the two tubes, and a refractory material in the upper portion of the annular table tube detactory material in the upper portion of the annular pace in the tube, said wick being adapted to slidingly engage between the extension D and the air tube E, substantially as de-scribed. Claim -1st. In an oil burner, a wick, composed of an inner and

No. 35,352. Process of Tempering Steel and of Carburetting Castings and Steel. (Procédé pour tremper l'acier et carburer la fonte et l'acier.)

Martin F. Coomes and Arunah W. Hyde, both of Louisville, Ken-tucky, U.S.A., 4th November, 1890; 5 years.

Claim.-lst. In the manufacture of steel, the process of carburiz-ing malleable cast-iron and low carbon steel, which composed of placing the metal raised to a white heat in a bath composed of water, a sugar chloride of sodium and chloride of anomonium, sub-stantially as described. 2nd. As a tempering and carburizing bath, the triple saturated solution of water, sugar, chloride of sodium and chloride of ammonium, substantially as described.

No. 35,353. Process of Tempering Fluids for Treating Steel. (Procedé pour la trempe et le traitement de l'acier.)

Byron M. Pickett, New York, State of New York, U.S.A., 4th November, 1890; 15 years.

vember, 1890; 15 years. Claim—Ist. A tempering fluid for treating steel, the same con-sisting of a diluent, such as water or oil, and a base containing a metallic ingredient or ingredients, such as an oxide, or a carbonate, or both, an oxide, and a carbonate of a metal of the so-called iron group, and an organic ingredient, such as glucose, with or without group, and an organic ingredient, such as glucose, with or without group, and an organic ingredient, such as glucose, with or without group, and an organic ingredient, such as glucose, with or without group, and an organic ingredient, such as previously prepared bath, con-red heat, and then plunging it into a previously prepared bath, con-red heat, and then plunging it into a previously prepared bath, con-red heat, and then a carbonate, of a metal of the so-called iron group, and an organic ingredient, such as glucose, either with or without a small quantity of sulphuric, or other acid, substantially as set forth. set forth.

No. 35,354. Method of Placing Glass in Windows. (Posage des vitres de chassis.)

William Babit, Levis, Quebec, Canada, 4th November, 1890; 5 years. william Dault, Leris, guesse, onnaux, 4th lovember, 1890; 5 years. *Résumé.*-10. La combinaison des baguettes et la rainure, telles que décrites à et pour les fins designées. 20. La combinaison des bandes de caoutchouc sur le rebord de la rainure a l'extérieur, telles que decrites, à et pour les fins ci-dessus designeés.

No. 35,355. Steam Warping Scow.

(Grelin pour chaland & vapeur.)

John Ceburn West and James Peachey, both of Simcoe, Ontario, Canada, 5th November, 1840; 5 years,

Claim.-Ist. A scow A, provided with steel-covered runners B, substantially as and for the purpose specified. 2nd. A boiler C, pivoted in a scow A, on suitable trunnion bearings D, a jointed steam pipe I, in combination with an arm E, nut F and screw G, substantially as and for the purpose specified. 3rd. A drum K, hav-