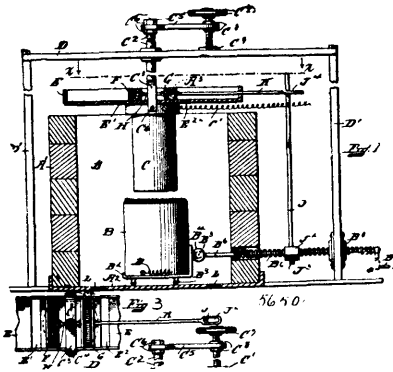


fence wires, substantially as set forth. 3rd. The combination with a fence post having a series of opposite coincident slots therein, of a series of wire clamps having a central bowed portion, and diverging spring arms engaging the sides of said slots, said clamps being adapted to support the fence wires, substantially as set forth. 4th. The combination with a fence post having a series of opposite coincident slots therein, of a series of wire clamps having central bowed portions, and diverging spring arms bearing against the sides of said slots, and provided with hook ends adapted to engage the fence wires, substantially as set forth. 5th. The herein described clamp for fence wires, composed of a single piece of spring wire having a central bowed or looped portion, and diverging arms extending from said central portion, and having their ends bent in opposite directions to form hooks, substantially as and for the purpose set forth.

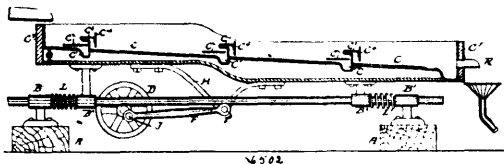
No. 56,501. Electric Furnace. (*Fourneau électrique.*)



John Joyce, Andover, and James A. Deuther, Boston, both in Mass., U.S.A., 5th July, 1897; 6 years. (Filed 19th January, 1897.)

Claim.—1st. In an electric arc furnace, an upper electrode, a lower electrode, mechanism for moving said lower electrode from its normal position to expose the same to receive the material to be treated, mechanism for returning said lower electrode to its normal position, and a feed mechanism for feeding the material to be treated onto said lower electrode during the interval between the movements of the lower electrode from and to its normal position. 2nd. In an electric arc furnace, an upper electrode, a lower electrode, mechanism for moving said lower electrode from its normal position to expose the same to receive the material to be treated, and a feed mechanism operated by the said movement of said lower electrode for feeding the material to be treated onto said lower electrode. 3rd. In an electric arc furnace, an upper electrode, a lower electrode, mechanism for moving said lower electrode from its normal position to expose the same to receive the material to be treated, and an intermittent feed mechanism connected to the upper electrode and adapted to be operated by the said movement of the lower electrode to intermittently feed the material to be treated onto said lower electrode. 4th. In an electric arc furnace, an upper electrode, a lower electrode, mechanism for varying the distance between said electrodes, mechanism for moving said lower electrode from its normal position to expose the same to receive the material to be treated, and a feed mechanism connected to said upper electrode and adapted to be operated by the movement of the said lower electrode to intermittently feed the material to be treated onto said lower electrode.

No. 56,502. Combined Reciprocating Concentrator and Amalgamator. (*Machine à concentrer et amalgamer.*)



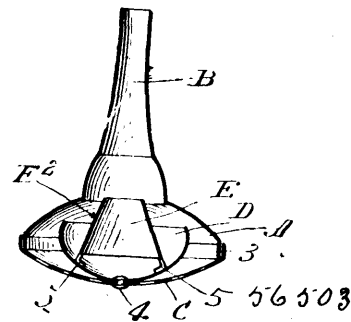
The Taylor Gold Recovery Co., assignee of Robert Taylor, both of Adelaide, South Australia, 5th July, 1897; 6 years. (Filed 22nd January, 1897.)

Claim.—1st. In an improved combined reciprocating concentrating and amalgamating machine, a table frame C⁵, mounted upon and in combination with the horizontal slide rods B, the said table frame being provided with trays or tables C, substantially as described. 2nd. In an improved combined reciprocating concentrating and amalgamating machine as hereinbefore described, the above claimed parts in combination with connecting rods F, and means whereby the same are caused to impart a horizontal reciprocating

motion to the table frame. 3rd. In an improved combined reciprocating concentrating and amalgamating machine as herein described, a gauze wire screen or screens C², arranged above and in combination with a mercury well or mercury wells C¹, as and for the purposes set forth. 4th. In an improved combined reciprocating concentrating and amalgamating machine, a stepped riffle plate C³, and an adjustable splash board in combination therewith, substantially as described. 5th. In an improved combined reciprocating concentrating and amalgamating machine, a choke rod M, in combination with a lever and rod M¹ and M², and the eccentric K², as and for the purposes set forth. 6th. The herein specified combined reciprocating concentrating and amalgamating machine, substantially as described.

No. 56,503. Vocalizing Audiphone.

(*Audiphone vocalisateur.*)

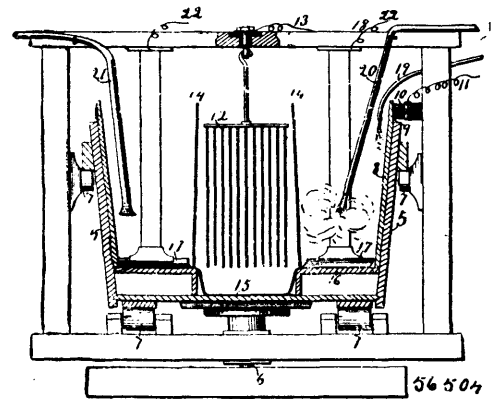


James Alfred Lakin, Westfield, Mass., U.S.A., 5th July, 1897; 6 years. (Filed 8th February, 1897.)

Claim.—1st. A vocalizing audiphone comprising a hollow case having an ear-tube extending from one side and a perforated cover applied to the opposite side thereof, combined with a dome of resonant material secured by its apex to the inner side of said cover, and a hollow cone-shaped sound-receiver connected by one end to the inner surface of said dome, but mainly separated therefrom, substantially as set forth. 2nd. A vocalizing audiphone comprising a hollow case having an ear-tube extending from one side and a perforated cover applied to the opposite side thereof, combined with a dome of resonant material attached by its apex, only, to the inner side of said cover, whereby the body thereof is free for resonant action, and a hollow cone-shaped sound-receiver of resonant material connected by one end to the inner surface of said dome, but mainly separated therefrom, substantially as set forth. 3rd. A vocalizing audiphone comprising a hollow case having an ear-tube extending from one side and a perforated cover applied to the opposite side thereof, combined with a dome of resonant material secured by its apex to the inner side of said cover, substantially as set forth.

No. 56,504. Ore Reducing Electrical Machine.

(*Machine électrique à réduire le minerai.*)



Charles P. Tatrow, Seattle, Washington, U.S.A., 6th July, 1897; 6 years. (Filed 10th February, 1897.)

Claim.—1st. In an ore reducing machine, a tub mounted for horizontal rotation, a lining in the form of a ring, of electric conducting material within the tub, a conductor for electricity to connect the said lining with the positive pole of a generator, a group of plates forming a cathode, electrically connected with the negative pole of the said generator and stationarily suspended in the centre of the tub, and a screen of perforated sheet metal located around the cathode, substantially as described. 2nd. In an ore reducing machine, a tub mounted for horizontal rotation, a lining in the form