genorate the electric current. 2nd. An electric machine adapted for giving shocks to the person, and provided with intignoto-electric devices, and having one handle serving for completing the circuit connected to said a vices, and serving as a means for revolving the same, and another handle, and regulating devices connected therewith adapted for increasing or diminishing the current. 3rd. In an electric machine adapted for giving shocks, and provided with imagneto-electric devices, a com-receiver, and a com operated unlocking device, a handle connected with, and serving to operate the magneto-electric devices to generate the electric current, combined with means, subtainfully as described, serving to look the machine and prevent its operation until the locking device, acted upon by the introduction of a com, or its equivalent, shall be releived. 4th. In an electric machine privided with imagneto-electric devices, and with a coin-receiver, and coin operated devices, the combination of a handle connected with, and serving to operate the magneto-electric devicer for generating the current, and a locking device serving to prevent such handle, being operated until the infrometion of a coin, or its equivalent, shall have released such locking device. 5th. In an electric machine provided with magneto-electric devices, and with a coin-receiver, and coin-operated devices, the combination of one handle, connected with and serving to operate the devices for generating the electric current, a locking device, serving to prevent such handle being operated until the introduction of a coin, or its equivalent, shall have released sho locking device, and another hindle, and regulating devices connected therewith, adapted for increasing or diminishing the current and completing the circuit of the law released to the electric device, and with a coin-receiver and coin-operated unforking devices, the combination of two handles, connected with magneto-electric devices, the combination of two handles, connected when handled before de congrets the electric current. and An electric muchine adapted In an electric machine provided with magneto-electric devices, and with a coin-receiver and coin-operated unlocking devices, the combination of two handles, connected enlocking devices, the combination of two handles, connected in the positive and negative wires, one handle being connected with, and serving when released by the agency of a coin to drive the machine for revolving the electro-magnets to generate the current, and the other handle, and regulating devices connected thorrewith, adapted to increase or diamnish the current, and a locking device, substantially as described, which prevents the operation of the machine until said locking device is acted upon and set free by the introduction of a coin, or its equivalent ulent

No. 30.108. Art or Process of Extracting Aluminium. (Procédé pour extraire l'. aluminum \

Orlando M. Thowles, Newark, N. J., U. S., 6th November, 1888; 5

Claim-1st. The process of producing aluminian, which consists (Vann-1st. The process of profucing aluminius, which consists in mixing aluminium chloride with solium, producing substances substantially as described, and then henting the mixing in a vessel, or receptacle, and then grinding and washing, substantially as described. 2nd. The process of profucing aluminium, which consists in mixing aluminium chloride with sodium producing substances substantially as described, and then hearing the mixture in a vessel, or receptacle, substantially as described.

No. 30,109, Process for Producing Sodium or Potassium. (Procédé de production du sodium ou du potassium)

Orlando M. Thowles, Newark, N. J. U. S. 6th November, 1888; 5 vears.

Claim -1st. The process of obtaining sodium, or potassium, which consists in hearing a carbonaccous, or other suitable reducing material, gradually supplying caustic soda, or caustic potash, or other terial, gradually supplying caustic sola, or caustic polash, or other suitable compound of soldium or poinssium thereto, and then condensing the vapour evolved, substantially as described. 2nd The process of obtaining soldium, or polassium, which consists in heating a cirbonnecous, or other suitable reducing material, gradually supplying heated caustic soda, or caustic potash, or other suitable compound of soldium, or potassium, thereto, and then condensing the vapour evolved, substantially as described.

No. 30,110. Apparatus for Producing Sodium or Potassium. (Appareil de production du sodium ou du polassium.

Orlando M. Thowles, Newark, N. J., U. S., 6th November, 1888; 5 years.

Claim -1st. An apparatus for obtaining sodium or potassium Claim -1st. An apparatus for obtaining sodium, or potassium consisting of a retort, located in a furnace, and hiving a supply chuic, a side chamber exposed to the heat of the furnace and connecting with the retort in the furnace, and having a regulating door, adapted to adjustably close the connection, and a condenser, substantially as described. 2nd. In an apparatus for obtaining sodium, or potassium, the combination with furnace A having flue A1, of retort B having chuic B1, with cover B2, chamber C, having door D, and a condenser E connected with retort B by 1400 F having stop-valve Ft, substantially as described. substantially as described.

No. 30,111. Treatment of Metals.

(Traitement des métaux.)

William A. Baldwin, Chicago, Ill., U.S., 6th November, 1888, 5 Beurs.

Claim —The process of treating metals, which consists in immersing such metals without fusion in a fused both of clay, or other two earthy subtances bearing alumna, carbonaceous matter, and sodium chlorue, the latter being in excess of either of the other substances, substantially as specified.

No. 30,112. Combined Metal with Aluminium. (Mesal avec altrage Paluminium)

William A. Baldwin, Chicago, Ill., U.S., 6th November, 1888; 5

Claim - The process of combining a metal with aluminium, con-

sisting in first fusing clay, or like substances containing aluming, with explonuocens matter and sedium chloride, the second of the other substances, fusing the metal to be combined, and introducing the metal thus fused into the said fused mass. substantially as specified.

No. 30,113. Bath for Extracting Aluminium and Alloying with other Metals. (Bain pour extraire l'aluminum et l'allier avec les autres métaux }

William A. Baldwin, Chicago, Itl., U.S., 6th November, 1888; 5

Claim. The composition of matter herein described, consisting of sodium chloride, clay, or otherearth bearing dumina, and charcoat the sodium chloride being in excess of the other ingredients, and the whole adapted to be fixed and thereby serve as a bath, for the pur poses specified.

No. 30,114. Process of and Apparatus for Disintegrating Fibres and Manutacturing Paper Pulp. Procede e' appareil de désagrégation des fibres et le fubrication de la pâte à papier.)

Henry Blackman, New York, N. Y., U.S., 6th November, 1888, 5 vears.

Henry Blackman, New York, N. Y. U.S., 6th November, 1888. 5 years.

Claim—1st. The improvement in the art of disintegrating fibrous substances, which consists in boiling them in a suitable vessel and-receive by injecting second in the bottom of the vessel, ousing it in pass through the mass of material and ecoping, the resulting vapora from the upper part of the vessel through a contrasted opening, whereby a creation invagit homes is minimal under presented and the properties of the control of the properties of the p