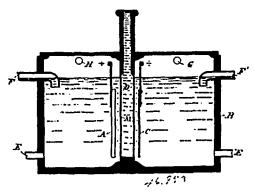
secured on a rocking shaft, and mounted in bearings at the rear of the fixed step or support, and adapted to swing in parallel planes with the front pair of arms, an extension step hinged to the swinging end of the front pair of arms, and provided with rigid arms ex-tending to and hinged with the rear pair of arms, and operating mechanism connected with the rocking shaft, substantially as set

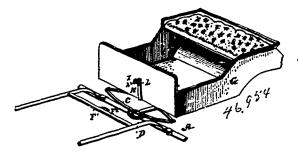
No. 46,933. Treating Salts in Solution by Electrolynin. (Traitement du sel en solution par l'électrolyse.)



Henrik Christian Fredrick Stormer, Christiana, Norway, 4th September, 1894; 6 years.

-1st. In the electrolysis of salts in solution or in molten state, the method for preventing the wandering of the ions from the electro-negative field to the electro-positive field and vice versa, and the rennion of such ions in the diaphragm separating the two fields the remnion of such ions in the diaphragm separating the two fields of action from each other, consisting in placing a liquid under pressure in a space between the said electric fields, said space being in communication with said fields, substantially as described. 2nd. In combination, a vessel B, and the hollow diaphragm within the same, said diaphragm being porous or perforated and adapted to receive a separating fluid, substantially as described. 3rd. In combination, a hollow diaphragm or partition wall D, provided with porous or perforated membranes M, and with a connection to a source of sundy, substantially as described. source of supply, substantially as described.

No. 46,934. Thill Support. (Armon de limonière.)



Ruben Cox, assignee of Samuel Dillard Webb, and George Theoa-boald Jacobs, all of Washington, Columbia, U.S.A., 5th September, 1894; 6 years.

Claim.—1st. In a shaft supporting device, a bracket adapted to be connected with the vehicle body, a hook pivoted and adapted to oscillate relative thereto, a loop or bar adapted to be connected with the shafts, substantially as described, whereby the loop or bar is adapted to be engaged by the book or bracket to hold the shafts elevated, and to act upon the book to oscillate the same, to release the shafts from engagement with the book, as set forth. 2nd. In a the shafts from engagement with the hook, as set forth. 2nd. In a shaft support, an oscillating head provided with a hook arm, and shaft support, an oscillating head provided with a hook arm, and with a throw-off arm, in combination with a loop or bar connected with the shafts, adapted to be engaged by the hook as the shafts are raised to hook the same, and to engage the throw-off arm in depressing the shafts to release the same from the hook, substantially as and for the purpose set forth. 3rd. In a shaft support, the combination with a loop or bar adapted to be connected, with the cross-har of the shafts, of an escillating hook mounted on an arm or bracket adapted to be connected with the vehicle body, a stop on the hook to engage the arm or support, and a throw-off arm rigidly connected to engage the arm or support, and a throw-off arm rigidly connected with the hook, arranged and operating, substantially in the manner and for the purpose set forth. 4th. In a shaft support, an oscillating book mounted on a bracket extending from the vehicle body, a feeling device for supplying the argentiferous lead in minute particular to engage the arm or support, and a throw-off arm rigidly connected with the hook, arranged and operating, substantially in the manner and for the purpose set forth. 4th. In a shaft support, an oscillating book mounted on a bracket extending from the vehicle body, a feeling device for supplying the argentiferous lead in minute particular to engage the arm or support, and a throw-off arm rigidly connected with the molten zinc or other menstruum, means for rotating the same, a consisting essentially of a revoluble receiver or vessel for containing with the hook, arranged and operating, substantially in the manner and for the purpose set forth. 4th. In a shaft support, an oscillating better the molten zinc or other menstruum, means for rotating the same, a consisting essentially of a revoluble receiver or vessel for containing to engage the arm or support, and a throw-off arm rigidly connected with the manner and for the purpose set forth. 4th. In a shaft support and holding the purified lead. 4th. The centrifugal apparatus

the shafts, all combined and operating, substantially as and for the purpose set forth. 5th, In a shaft support, the arm or bracket having the oscillating hook mounted thereon, in combination with a stop on the hook provided with a cushioned face to engage the arm or bracket, substantially as and for the purpose set forth.

No. 46,955. Manufacture of Nickel and Cobalt.

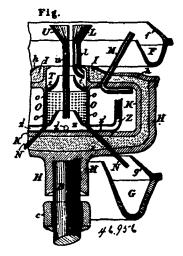
(Fabrication de nickel et cobalt.)

Pierre Manhes and Societé Anonyme de Metallurgie du Cuivre (Procédés Pre Manhes) all of Lyon, France, 5th September, 1894; 6 years.

Claim.—1st. The art or process of refining nickel and cobalt after elimination of iron and partial desulphurization, to obtain said metals commercially pure, which consists in first crushing or granulating said impure nickel or cobalt and mixing the same with basic or alkaline reagents or fluxes mixed with chlorides of the same nature (said re-agents being lime, baryta, magnesia, soda, potash or the like, and the chlorides, chloride of lime, barum, magnesium, sodium, potassium) then covering the soie of a metallurgical furnace with a layer of lime and chloride of lime mixed, then placing the granulated nickel or metal and mixed re-agents aforesaid in said furnace, and heating the same to separate the metal and scoria, the latter during transformation removing all the remaining sulphur, and when flowed out of the furnace the pure metal is withdrawn. 2nd. The art of desulphurizing nickel or cobalt after elimination of iron and partial desulphurization, which consists in fusing said metals with a flux consisting of basic or alkaline re-agents and chlorides of the same nature, as set forth.

No. 46,956. Centrifugal Apparatus.

(Appareil centrifuge.)



Jonathan Aldons Mays, Belsize Terrace, Aamstead, County London, England, 5th September, 1894; 6 years.

Claim .- 1st. The centrifugal apparatus for separating other metals from molten argentiferous lead consisting essentially of a revoluble receiver or vessel for containing the molten zinc or other menstruum, means for rotating the same, a feeding device for supplying the argentiferous lead in minute particles to the menstruum, and an eduction passage or passages through which the purified lead passes out. 2nd. The centrifugal apparatus for separating other metals from molten argentiferous lead consisting essentially of a revoluble receiver or vessel for containing the molten zinc or other menstruum, means for rotating the same, a feeding device for supplying the argentiferous lead in minute particles to the menstruum, an eduction passage or passages through which the purified lead passes out, a supplying device for the molten zinc or other menstruum, and an eduction passage or passages for the same. 3rd. The centrifugal apparatus for separating other metals from molten argentiferous lead consisting essentially of a revoluble receiver or vessel for containing