No. 19,048. Process and Apparatus for the Manufacture of gas. (Procedé et Ap-pareil de Production du Gaz.)

Manufacture of grave. (Proceed et Appendie van de Production au Gau)
Jans A. Leadler, Canden, N.J., U.S., 3rd April, 1884; 5 years.
Taim A. Leadler, Canden, N.J., U.S., 3rd April, 1884; 5 years.
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No. 19,049. Churn. (Baratte.)

Robert R. Shive, Oxford, Miss., U.S., 3rd April, 1884; 5 years.

Robert R. Shive, Oxford, Miss., U.S., 3rd April, 1884; 5 years. Claim.—1st. The combination of the cylindrical churn body having a suitable cap or cover, with the dasher, having its staff passing through the cover and formed with perforations, the butter lifter cem-prising the perforated disk adapted to rest upon the bottom of the churn body, and having its lifting rod passing up through one of the perforations in the dasher and out through the cover, as set forth. 2nd. In a churn, the body A having a flaring mouth B and a cap or cover C, of the base E, chamber G, chambers H, H and openings I, I. and a cock or faucet K arranged and operating so that the hot or cold water, supplied to the chambers H, will communicate with the cham-ber G beneath the churn, and be drawn off_as desired, for the purpose set forth. 3rd. The combination of the churn body A, of a casing J secured to the same and having an open or transparent face M, and a thermometer N placed within and protected by the casing, as and for the purpose set forth. 4th. In a churn, the combination of the churn body A, the dasher g provided with a staff O and formed with per-forations, and the butter lifter resting on the bottom of the churn and having its lifting rod arranged parallel with the dasher-staff, arranged and operating, so that the lifter will raise the butter to the top of the churn while the milk will be strained back into the body, as set forth.

No. 19,050. Railway Rail Chair. (Coussinet de Rail de Chemin de Fer.)

George Weeks, East Oakland, Cal., U.S., 3rd April, 1884 ; 5 years.

Claim.—The sombination, with the rails A, A, ties B, B and fish-plates C, C, of the side plates D, D having apparetus I F, ohair E having upwardly-extending ends and provided with apertures H, H, locking-block G having aperture K, and angle locking-block F pro-vided with apertures J, J, and having its outer surface at either end berelled or rounded, and its sides of such a height that when placed in aperture position, its upper edge will be flush with the top of the rails A, A, all constructed and arranged to operate substantially in the manner and for the purpose shown and set forth.

No. 19,051. Loom. (Métier de Tisserand.)⁻

Arthur M. Rice, Toronto, Ont., 4th April, 1884; 5 years.

Claim.-In a weaving loom, a belt E made of canvas or other suit-able material, connected at one end to the beam A, and having hooks

F attached to its other end, in combination with a rod G, arranged to form a connection between the warp D and belt E, substantially as and for the purpose specified.

No. 19,052. Machine for Holding Coal Oil Cans While in Use. (Machine pour Soutenir les Bidons à Pétrole en Usage.)

Claim.—The combination of tilting box F, with pivots C, Cand hook B. The adjustable spring strap A, which holds the oil-can in the pilting box. The combination frame J to be used as a frame for sup-porting tilting box F, and as a stand or table, substantially and for the purpose hereinbefore set forth, Henry G. Waterson, Victoria, B.C., 4th April, 1884; 5 years

No. 19,053. Process and Apparatus for the Manufacture of Gas. (Procede Appareil de Production du Gaz.)

Manufacture of Gas. (Proceed Appareil de Production du Gaz.) James E. Leadley, Camden, N.J., U.S., 4th April, 1884; 5 years. Cloim.—let, The process of generating gas, which consists in super-heating steam, then passing it down through a body of incendeser-or highly heated fuel where it is decomposed, resulting in the produc-cion of hydrogen, carbonic oxide and a small per cent. of carbonic acid, then passing these gases up through a separato body of heated passing them through a charge of distilling soft coal for carrying of the rich gases therefrom, and finally converting them into a man facturing gas, which consists in decomposing and superheating stream facturing gas, which consists in decomposing and superheating stream facturing gas, which consists in decomposing and superheating stream facturing gas, which consists in decomposing and superheating stream facturing gas, which consists in decomposing and superheating stream facturing gas, which consists in decomposing and superheating stream facturing gas, which consists in decomposing and superheating stream facturing gas, which consists in decomposing and superheating stream facturing gas, which consists in decomposing and superheating stream facturing gas, beat of heated iron scrap and heated work, and then down through a bedy of incandescent or highly heated oxide, then enriching the gased by passing them through a beated fixing chamber. 3rd. In a gas generator hydro-carbon, and finally converting them into a fixed gas by passing apparatus, a generator having a fuel chamber in its base, and a sum is upper part, and having a coal chute passing through its super-heater, in combination with the bist pipes, the steam and of an at and for the purpose described, and the coal charging apparatus a fuel chamber, is superheating chamber, as described, and having a fuel chamber, the connecting pipe water box and water order valve, as and for the purpose described. 6th A gas generation with the fixing chamber, the connecting pipe sparatus connecting with streat

No. 19,054. Process and Apparatus for the Manufacture of Gas. (Protode a Appareil de Production du Gaz.) James E. Leadley, Camden N. I. U.S. (Construction du Gaz.)

Appareil de Production du Gaz.) James E. Leadley, Camden, N.J., U.S., 4th April, 1884; 5 years. Raising a body of fuel to an incandescent state by a blast of air hear raising a body of fuel to an incandescent state by a blast of air hear ing a separate body of bituminous coal by the resulting hold faring products, and burning the gasesous products in the mixing and mag-ing a separate body of bituminous coal by the resulting hold faring the separate body of bituminous coal by the resulting hold faring ing a separate body of bituminous coal by the resulting hold faring the passing the resulting hold gases through the body of *p* bituminous coal and thereby distilling and carrying off the carburetted hydrogan therefrom, carburetting the gases with liquid hydro carbon and therefrom, carburetting the gases with liquid hydro carbon and therefrom, carburetting the gases with liquid hydro carbon and thereby distilling chamber B, the performation with connecting furnace, consisting of the lower descomposing generating furnace, consisting of the under the mirang separated by a perforated partition in combination with the mirang lower decomposing chamber, having air and steam supply picture the upper distilling chamber and steam supply picture the upper chamber, and a gas outlet pipe, as and for an upper described. 3th. The generating furnace divided into an upper the upper chamber, and a gas outlet pipe, as and for the parate chamber by a perforated partition, in combination with the and of a lower chamber by a perforated partition, in combination and upper the chamber by a perforated partition, in combination and upper the chamber having an oil inlet pipe, and a pipe connocing and with the upper chamber by a perforated partition, in combination and with chamber by a perforated partition, in combination and with chamber having an oil inlet pipe, and a pipe connocing and mirand chamber having an oil inlet pipe, and a pipe connocing and mirand chamber having an oil inlet pipe, and a pipe con