o. 2039. GEORGE LITTLE, Rutherford Park, N J., U.S., 9th February, 1873, for 5 years: "Electric Telegraph Apparatus and Circuit." (Appareil et circuit de télégraphe électrique.) No. 2039.

Relates to improvements in telegraphic appliances especially available with automatic telegraphs where periorated paper is employed to transmit the message by pulsations through the perforations.

available with automatic telegraphs where perforated paper is employed to transmit the message by pulsations through the perforations.

Claim—Ist The circuit closer 10, and lever et, in combination with the roller e, drum et, and connections for closing and breaking a circuit to the main line by the perforated paper; 2nd. The growed dram et, stationary lifting blade v, and delivers side et; 3rd An oscillating armature of, and two helices fi, fi, connected to the main line, in combination with a constant circuit connected with one of the helices; 4th. An oscillating armature of, upon a fulcrum connected with the cores of two electro magnets of if, fi, in combination with two electric circuits connected with the helices of such magnets; 5th. Two electro magnets and a vibrating armature, in combination with a constant circuit connected with one of the electro-magnets and a switch for directing the main line curront either through one electro-magnet or through both of the electro-magnets, 6th. I we transmitting rollers or disks e, arranged uponsoparate spring arms or levers so as to act inconnection with a strip of paper having perforations in two lines; 7th. An electromagnet introduced within a rheesatt, 8th. In a rheostatt made in two parts united at one end and provided with two adjustors; 9th. An armature made of thin sheet metal and vibrated to form a receiving sound instrument, 10th. A metallic connection between one pole and the other at the operative end of an electro-magnet to more rapidly disperse or neutralize the residual or induced magnetism; 11th. A metallic connection between the two operative poles of a magnet made adjustable for regulating the action of such connection in neutralizing the residual or induced magnetism; 12th. The connections arranged us shwm in fig. 15, for the main lines and constant circuits between the rhoostats, the electro-magnet on the such connection in contralizing the residual or induced magnetism; 12th. The connections arranged us sharing lines running back and forth or zi

No. 2040. THOMAS F. HENLEY, London, Eng., 12th February, 1873, for 5 years: "Process for the Preservation of Meat and Fish." (Procede) de conservation de la viande et du poisson.)

Claim.—1st. The preservation of animal food from decay by expressing therefrom the juices which by their presence induce decomposition whether the pressure be applied with or without the and of heat: 2nd. Applying the antiseptic properties of extract of meat, concentrated meat essence of concentrated beet-ten, and of dry gelatine to the preservation of the juices discharged from rawment: 3nd. In utilizing the juices discharged from meat by hot pressure in the manner described.

o. 2011. AUGUSTIN J AMBLER, Washington, D. C. U. S., 12th February, 1873, for 15 years: No. 2011. "A Gas Generator." (Un générateur à gaz.)

For generating gas from petroleum and other hydro-carbon oils by the introduction of steam.

Claim—1st Agas generator combining in its construction an oil and gas-chamber A. a steam-chamber B, on a surrounding gas-chamber D; 2nd. The combination of the vessel A, flues or tubes U, C. vessels B! and E, steam-pipe I, and sunable valves II, 12 and I3; 3rd. The combination of the oil-vessel A, and the indicator composed of the parts K. K and K: 4th. The combination of the pump II, pipes II and I3, and vessel A, 5th. The combination in a gas generator of agas receiving-chamber D, connecting pipe M, receiving-chamber 3, in a separate vessel, and a suitable pipe; 6th. For conducting the gas to the point where it is to be consumed.

No. 2042. JOHN W. BURTON, Leeds, England, 12th February, 1873, for 5 years: "Treatment of Oils and Fats for Lubricating and other purposes." (Traitement des corps gras pour le Iubréfiage et autres fins.)

The invention consists in the manufacture of a new material called "Almond Oil," by subjecting petroleum or mineral oil to the action of the oil of mirbane, and in mixing the same with oils and fatty substances.

Claim.—1st. In the manufacture of the almond oil, in the manner described \cdot 2nd. In the treating or refining of oils and fats by the almond oil.

No. 2043. WILLIAM HAMILTON, Peterborough, Ont., & JOHN LUDGATE, Ashburnham, Ont., 12th February, 1873, for 5 years: "Machine for Raising Saw Logs on to the Mill Floor." (Machine à monter le bois de sciage sur le pavé des moulins.)

Claim.—The endless chain D. arranged and operated by means of cogs or projections from the driving-whoel and the trucks E, attached to such chain for the carriage of the logs, etc., the ranning-gear of the same being the wheels attached to such trucks and the upper and lower trucks for the same and the toothed wheels a. a. a and a, together with the chain-wheel II, and the combination of the same.

No. 2044. Bridget French, wife of John French, Rochester, N. Y., U. S., 12th February, 1873, for 5 years: "A Lubricating Compound." (Une composition lubréfiante.)

Claim.—1st. The combination of bees wax (either with or without alkali and tallow) with petroleum or other oil and plumbago, for holding the plumbago in suspension; 2nd. The combination with an oil having plumbago in solution, of alkali and unctuous oil or tallow (or soap) for the purpose of saponifying and solutifying the mass as described.

No. 2045. WILLIAM MURPHY. Sackville, N. B., Assignee of Charles H. Straffin, Boston, Mass., U. S., 12th February, 1873, for 5 years: "Improvements in Bracket Sheaves." (Perfectionnements aux poulies à consoles.)

Relates to the method of combining with an open sheave-block, a plate at right angles to the plane of the pulley, said plate being provided with serve or nail-holes by means of which the sheave many to feet mad by the past as a support may be fustened to the post or support.

Claim.—The east metallic sheave, as an article of manufacture, consisting of the parts A, B, E, as described.

No. 2046. SARAH MAHAN, Cleveland, Ohio, U. S., 12th February, 1873, for 5 years: "A Lap Board." (Table à ouvrage reposant en partie sur les genoux.)

Claim.—1st. In the legs B, G, and spring-hook brace D, in combination with the board A. 2nd. The spring-hook brace D, constructed as described, with an angle C, in combination with the legs B, G, 3rd. The spring-hook brace D, constructed as described.

No. 2047. JOHN PARTINGTON, & ROBERT BLOOM-FIELD, Montreal, Que., 12th February, 1873, for 5 years: "Steam Engine Packing." (Garni-ture de machine à vapeur.)

Relates to an improvement on the method now in vegue, of packing the glands of steam-engines with hemp and other fibrous substances, and provides a metal packing of a more durable character. Another feature of the invention is the reduction of friction on the working parts.

Claim.—lst The packing composed of a ring or rings d, with spring or springs f; 2nd. In the rings d, and ring or rings f, externally acted upon by steam etc., to give the necessary pressure on the rod b; and 3rd. The combination of the gland a, and cover c, ring or bust p, or k, angular-chamber pl, steam way h, ring d, and springs f, with or without ring i, and supplementary packing di, with springs fi, in combination with rod b.