## No. 37,266. Refining Canadian and Similar Petroleum Oils. (Appareil pour rafiner le pétrole Canadien et autres semblables. J

The Solar Refining Company, Lima, assignees of Herman Frasch, Cleveland, both in Ohio, U.S.A., 1st September, 1891; 5 years.

Petroleum Oils. (Appareil pour rafiner le petrole Canadien et autres sembaldes.)

The Solar Refining Company, Lima, assignees of Herman Frasch. Cleveland, both in Ohio, U.S.A., Ist September, 1891; 5 years.

Claim.—It. The process of purifying Canadian and similar petroleum, which contain sulphur compounds whose presence gives to said oils the property of dissolving lead acties by city on off from the distilling liquid, to the action of the actidating ocides, so as to decompose the refractory sulphur compounds, substantially as described. 2nd. The process of purifying Canadian and similar petroleum, which contain sulphur compounds whose presence gives to the said oils the process of purifying Canadian and similar petroleum, which contain sulphur compounds whose presence gives to the said oils the process of purifying Canadian and similar petroleum, which contain sulphur compounds whose presence gives to consense the contained the contense diquid with sulphur canadian and similar petroleums, which contain sulphur compounds whose presence gives of the same, and cly subjecting the vapors after they are given off, to the action of the oxidating oxides, (3) condensing the vapors so acted upon, and (4) weaking the oxidates, (3) condensing the vapors so acted upon, and (4) weaking the condensed liquid with sulphuric acid, substantially as described. 4th. In the purification of Canadian and similar petroleums which contain sulphur compounds whose presence gives of condense to the condensed liquid with sulphuric acid, substantially as described. 5th. In the purification of Canadian and similar petroleums, which contains and purity of the condensed liquid with sulphuric acid, substantially as described. 6th.

Canadian and similar petroleums, which contains of the purification of the condensed liquid with sulphuric acid. Subjecting the vapors thereof to the action of oxidating oxide in acid subjecting the vapors thereof to the purification of the manufaction of the condensed liquid with a condense discribed. 6th. The comb

## No. 37,267. Art of Puritying Petroleum. (Art de purifer le pétrole.)

The Solar Refining Company. Lin a, assignees of Herman Frasch, Cleveland, both in Ohio, U.S.A., 1st September, 1891; 5 years.

Claim.—1st. The process of purifying Lima and similar petroleums of the character described, consisting in (I) distilling the same with a metallic oxidating oxide or oxides dissolved therein, (2) keeping up, during the process of distillation, a condition of super-naturation of a quant with the oxides, and (3) suspension of the latter by adding up, during the process of distillation, a condition of super-naturation of a quant with the oxides, and (3) suspension of the latter by adding up, during the performed of the control of the distillation of the oil and oxides custantially as described. 2nd. The process of purifying Lima oil and similar petroleums of the character described, by (I) mixing the petroleum with an oxidating oxide or oxides in excess of the amount which the oil under treatment will hold in solution, and (2) distilling the same, while (3) keeping the oil and oxides in the still in a state of constant septantion during the process, substantially as described. 3rd. The per describe by (I) distilling the same in a still containing (mixed with the oil variety of the distillation of an experiment of the character described by (I) distilling the same in a still containing (mixed with the oil and of constant agitation of the oil and of constant agitation of the oil and of constant agitation of the oil and oxides during the distillation, and (3) treating the resultant distillate with sulphuric acid, substantially as described. 4th. The process of purifying Lima oil and similar petroleums, consisting in (I) distilling the oil when mixed with a soluble metallic oxide or oxides or purifying Lima oil and similar petroleum, consisting in (I) displaying the same, in excess of the amount necessary to the sedimentary residuum and (3) adding thereto an amount of metallic oxide or oxides sufficient with the unreduced oxides remaining in the sedimentary residuum and (3) adding thereto an amount of metallic oxide or oxides sufficient with the unreduced oxides remaining in the sedimentary residuum to form a new char

## No. 37,268. Art of Purifying Petroleum. (Art de purifier le pétrole.)

The Solar Refining Company, Lima, (assignees of Herman Frasch, Cleveland), both of Ohio, U.S.A., 1st September, 1891; 5 years.

Cleveland), both of Ohio, U.S.A., 1st September, 1891; 5 years.

Claim.—1st. The process of preparing inodorous, undistilled petroleum of the character described, consisting in treating the same in the liquid state with oxidating azents, substantially as set forth. 2nd. In the art of purifying undistilled petroleum liquids of the character described, the improvement consisting in binding the sulphur compounds contained in the liquid, by dissolving therein an oxidating compound without subsequent precipitation, substantially as and for the purposes described. 3rd. In the art of purifying undistilled petroleum liquids of the character described, the improvement consisting in binding the sulphur compounds contained in the liquid by dissolving therein an oxidating compound without previous treatment of the liquid with sulphuric acid, substantially as and for the purposes described. 4th. In the art of purifying undistilled petroleum liquids of the character described, the improvement consisting in treating such liquid when in a heated state preferably at about 400° F, with an oxidating compound, agitating the mixture, and then allowing it to cool and settle, substantially as and for the purposes described. 5th. In the art of purifying undistilled petroleum liquids of the character described, the improvement consisting in treating such liquid in a heated closed vessel preferably at about the temperature of 400° F, with an oxidating compound, and then allowing the liquid to cool and settle, substantially as and for the purposes described. 6th. In the art of purifying the liquids of the purposes described. 6th. In the art of purifying the liquids of the purposes described. 6th. In the art of purifying the liquids of the purposes described. 6th. In the art of purifying the liquids of the purposes described. 6th. In the art of purifying the liquids of the purposes described. 6th. In the art of purifying the liquids of the purposes described. 6th. In the art of purifying the liquids of the purposes described. 6th. In the