

Specification of Charles Constant Joseph Guffroy : preparing medicinal substances and compounds from the livers of cod, &c.;

Contributors

Guffroy, Charles Constant Joseph.

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A.D. 1861, *29th JULY.* N° 1892.

S P E C I F I C A T I O N

OF

CHARLES CONSTANT JOSEPH GUFFROY.

PREPARING MEDICINAL SUBSTANCES AND
COMPOUNDS FROM THE LIVERS OF COD, &c.

L O N D O N :

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A.D. 1861, 29th JULY. N^o 1892.

**Preparing Medicinal Substances and Compounds from
the Livers of Cod, &c.**

LETTERS PATENT to Charles Constant Joseph Guffroy, of Lille, in the Empire of France, Merchant, for the Invention of "IMPROVEMENTS IN PREPARING MEDICINAL SUBSTANCES AND COMPOUNDS FROM THE LIVERS OF COD AND OTHER SALT WATER FISH."

Sealed the 24th January 1862, and dated the 29th July 1861.

PROVISIONAL SPECIFICATION left by the said Charles Constant Joseph Guffroy at the Office of the Commissioners of Patents, with his Petition on the 29th July 1861.

I, CHARLES CONSTANT JOSEPH GUFFROY, of Lille, in the Empire of France,
5 Merchant, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN PREPARING MEDICINAL SUBSTANCES AND COMPOUNDS FROM THE LIVERS OF COD AND OTHER SALT WATER FISH," to be as follows:—

My Invention consists in treating the watery liquid obtained from or remaining after the extraction of oil from the liver of cod and other salt water
10 fish in manner hereafter explained.

In Letters Patent granted to me the 20th July 1860, No. 1764, I claimed the extraction of a substance in a state of paste from the said watery liquid.

Now I take the watery liquid, and after separating the albumen (coagulated by heat) therefrom, I add to it sugar, honey, or other saccharine matter,
15 subject the mixture to heat, and proceed in the manner ordinarily followed by chemists in the manufacture of medicinal syrup. Or I take the watery liquid, and instead of evaporating down to the state of paste, as described in the Specification of my said former Letters Patent, I stop the evaporation before

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the substance assumes a solid state. Or I form a liniment or ointment by mixing with the watery liquid fatty or oily matters, and by exposing the mixture to heat, care being taken to stir the mass while the watery particles are being given off in the state of steam.

Again, I sometimes mix with the watery liquid alcohol or sulphuric ether, 5 whereupon a matter of a gummy nature, known as ichthyoglycine, is precipitated, which I separate, drive off the alcohol or the ether by heat, and use as a medicinal substance without further treatment. Or after the alcohol or ether is driven off, I dissolve the ichthyoglycine in water, and add sugar, honey, or other saccharine matter to make a syrup of ichthyoglycine. 10

With the watery liquid from which the ichthyoglycine has been precipitated I form another medicinal syrup by mixing sugar or other saccharine matter, in manner followed in making medicinal syrups.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Charles Constant Joseph Guffroy in the Great Seal Patent 15 Office on the 29th January 1862.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, CHARLES CONSTANT JOSEPH GUFFROY, of Lille, in the Empire of France, Merchant, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters 20 Patent, bearing date the Twenty-ninth day of July, in the year of our Lord One thousand eight hundred and sixty-one, in the twenty-fifth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Charles Constant Joseph Guffroy, Her special licence that I, the said Charles Constant Joseph Guffroy, my executors, administrators, and 25 assigns, or such others as I, the said Charles Constant Joseph Guffroy, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel 30 Islands, and Isle of Man, an Invention for "**IMPROVEMENTS IN PREPARING MEDICINAL SUBSTANCES AND COMPOUNDS FROM THE LIVERS OF COD AND OTHER SALT WATER FISH,**" upon the condition (amongst others) that I, the said Charles Constant Joseph Guffroy, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should par- 35 ticularly describe and ascertain the nature of the said Invention, and in what

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manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said Charles Constant Joseph Guffroy, do
5 hereby declare the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof, that is to say :—

Under Letters Patent granted to me the 20th July 1860, No. 1764, I claimed the extraction of a new medicinal substance in a state of tough paste
10 from the watery liquid obtained in or remaining after the extraction of oil from the liver of cod and other salt water fish.

My present Invention consists in preparing from the same watery liquids new medicinal substances and compounds, by treating them in manner hereafter explained.

15 Preparation No. 1.—I take the said watery liquid and free it from foreign matters held in suspension by filtration or decantation. I subject it to sufficient heat to coagulate the albumen, which I remove by skimming and filtration or decantation. I add to the liquid, which then marks about ten degrees Baumé, a quantity of distilled water in the proportion of 120 parts of
20 distilled water to 100 parts of the watery fish liquid. I allow the liquid to cool, and add about 400 parts of sugar, honey, or other saccharine matter, which, when dissolved, either cold or under a gentle heat, produces a medicinal syrup of a pleasant taste, which may be flavoured or not by the addition of essence of orange flowers or other aromatic substance. The syrup marks cold
25 about 36 degrees Baumé. I obtain a more concentrated syrup, thicker and heavier, with the same proportions of the watery fish liquid, and of sugar or honey, without adding any distilled water. And I obtain a more highly concentrated syrup by evaporating, under heat, the watery liquid before adding the sugar or honey. In the two last cases I effect the intimate mixture of the
30 substances by trituration in a mortar. I am enabled to vary the medicinal power of the syrup by altering the proportion of the watery fish liquid.

Preparation No. 2.—I take the watery liquid, and after separating the albumen as before described, concentrate it by evaporation under a gentle heat to various degrees, but I always stop the concentration before it reaches a state
35 of paste. This medicinal unsweetened syrup may be taken inwardly, enclosed in capsules, or dissolved in wine, or it may be used for external applications.

Preparation No. 3.—I obtain a fatty syrup by adding to the watery fish liquid, after the albumen has been separated from it, a fatty body or an oil, but by preference, an oil of cod liver or other liver of sea water fish. I con-

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centrate by evaporation under heat, stirring the whole time until a consistence of syrup, more or less thick, or of soft paste has been attained. This syrup or soft paste may be taken inwardly, encased in capsules, or it may be used for external applications.

Preparations Nos. 4 and 5.—I mix with the watery liquid, freed from its albumen, alcohol or ether, whereupon a matter of a gummy nature, known as ichthyoglycine, is precipitated. I separate it from the liquid and drive off by heat the alcohol or ether and water which may remain mixed with it, and use it as a medicinal substance without further treatment. I also use the watery liquid for medicinal purposes inwardly or outwardly, from which the ichthyoglycine has been separated as aforesaid, and which contains all the saline substances non-precipitated. I call this preparation ichthyohalsine. I use it either mixed with alcohol or ether, or freed from them by distillation. Again, it may be more or less concentrated by gentle heat in a state of syrup or paste.

Preparation No. 6.—I dissolve ichthyoglycine in water, and add sugar, honey, or other saccharine matter, and obtain syrup of ichthyoglycine by operating in the manner usually followed by chemists in making syrups. This ichthyoglycine syrup may, without detriment, be more or less concentrated under heat, or it may be so highly concentrated as to form a paste for making lozenges and other medicinal sweetmeats.

Preparation No. 7.—I take the liquid which I have herein-before named ichthyohalsine, and mix with it, while cold, sugar, honey, or other saccharine matter, to produce syrup of ichthyohalsine, more or less concentrated, in manner and in the proportions directed under No. 1.

All the above preparations should be kept in well-stoppered flasks, bottles, or jars.

And having now described the nature of my said Invention, and in what manner the same is to be performed, I declare that I claim the various medicinal preparations herein-before described, obtained by treating the watery liquid resulting from the livers of cod and other salt water fish substantially in manner herein-before described.

In witness whereof, I, the said Charles Constant Joseph Guffroy, have hereunto set my hand and seal, this Twenty-fourth day of January, One thousand eight hundred and sixty-two.

C. GUFFROY. (L.S.)

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