



Date of Application, 21st Feb., 1894—Accepted, 24th Mar., 1894

COMPLETE SPECIFICATION.

Improvements in Refining Sugar.

I, EUGEN LANGEN, of Werthstrasse 14, Cologne, in the Empire of Germany, Manufacturer, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement :—

- 5 My present invention has for its object to obtain in the refining of sugar, at one stroke, even from inferior solutions, a good washable filling mass. For this purpose, in addition to the after-product crystals that may be obtained from the working, I mix the whole or a least a very large portion of the raw sugar as first introduced into the refining process (and which is ordinarily subjected to affinage)
- 10 with the thickened discharge-syrups of any degree of purity, and this mass is then subjected to the well known processes of crystallisation in motion. The said syrups may be subjected to concentration either before or after being mixed with the raw sugar crystals.

- This improved process is based upon the observation that when employing very
- 15 large quantities of crystals added as crystal generators, washable sugar can be obtained even from inferior solutions by means of crystallisation in motion. Now such large quantities of crystals are available in the refinery in the raw sugar, which is usually first subjected to affinage, but which according to the present invention is only subjected to affinage after it has served as crystal generator in
- 20 the process of crystallisation in motion. After the crystallisation the whole mass is cooled ; by this cooling an additional crystallisation is effected, and then the cooled mass is purified by a known systematic washing process.

The washed crystals may either be sold directly as granulated sugar, or be led into the refinery as charging material.

- 25 Having now particularly described and ascertained the nature of this invention and in what manner the same is to be performed, I declare that what I claim is :—

- In the process of refining sugar, the introduction of the raw sugar used as charging material in the refinery, and which is usually subjected to affinage, into
- 30 the syrups to be treated, and the subjection of this mass to the process of crystallisation in motion, the said syrups being subjected to concentration either before or after the introduction of the raw sugar crystals, as may be required.

Dated this 21st day of February 1894.

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ABEL & IMRAY,  
Agents for the Applicant.

London : Printed for Her Majesty's Stationery Office, by Darling & Son, Ltd.—1894