UNITED STATES PATENT OFFICE.

WALTER R. ELMENHORST, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN PROCESSES FOR MANUFACTURING POWDERED WHITE SUGAR.

Specification forming part of Letters Patent No. **195,591**, dated September 25, 1877; application filed July 20, 1877.

To all whom it may concern:

Be it known that I, WALTER R. ELMENHORST, of Jersey City, New Jersey, have invented a new Process for Manufacturing Powdered White Sugar, of which the following is a specification:

My process relates to the production from raw sugar of a dry pulverized white sugar without dissolving the raw sugar, and then decolorizing the resulting sugar-liquor and boiling it *in vacuo*, as the refining process is ordinarily conducted.

My process consists in first washing the raw sugar in the centrifugal machine to extract the soluble impurities therefrom; then in removing from the machine the washed sugar-crystals, and drying and pulverizing them.

In washing the raw sugar in the centrifugal machine, I preferably adopt the method described in the Letters Patent of the United States No. 191,539, dated June 5, 1877, granted to Franz O. Matthiessen for an improvement in the mode of washing raw sugar.

Having removed the washed sugar-crystals from the centrifugal machine I dry them by any of the ordinary methods, and finally pulverize them to the fineness of ordinary pulverized sugar.

I have found that by using raw sugar of a high grade I am enabled to obtain from the centrifugal machine ninety-one per cent. of washed sugar-crystals.

The product resulting from drying and pulverizing these crystals is a white fine sugar, which may sometimes be marketed as such; or it may sometimes be profitably mixed with a refined sirup, or with coffee-sugar, or with both, producing in either case a fine grade of soft or coffee sugar. I make no claim, however, in this application, to such mixtures; but

I claim as my invention—

The process of manufacturing pulverized white sugar herein described, which consists in first washing the raw sugar, and then in drying and pulverizing the washed sugar-crystals.

WALTER R. ELMENHORST.

Witnesses:
M. L. ADAMS,
GEO. W. MIATT.