

# UNITED STATES PATENT OFFICE.

AUGUSTUS H. TAIT, OF JERSEY CITY, NEW JERSEY.

## IMPROVEMENT IN CLEANSING SUGAR FROM MOLASSES, &c.

Specification forming part of Letters Patent No. **145,460**, dated December 9, 1873; application filed December 6, 1873.

*To all whom it may concern:*

Be it known that I, AUGUSTUS H. TAIT, of Jersey City, Hudson county, New Jersey, have invented a Mode of Cleansing Sugar from Molasses, &c., of which the following is a specification:

The nature of my invention consists in the facilitating the cleansing or purging of the crystallized sugar, in the process of refining, from the molasses or mother-liquor which adheres to the crystals, which purging may be done either in the ordinary molds, in large vessels, or, still better, in the centrifugal machines.

The process consists in liquoring, washing, or passing through the crystallized sugar, while warm, a warm solution of glucose or grape-sugar of from twenty-five to thirty density of Baumé, or so dense that the solution of grape-sugar will not dissolve the crystals.

The grape-sugar may be made from corn-starch, potato-starch, or, in fact, from any substance convertible into grape-sugar by chemical action. The advantage of using a solution of grape-sugar in place of cane-sugar for washing the crystals is its greater economy, as it is not only cheaper, but it does not require to be bleached with bone-black, and the color of the molasses is thereby much improved by the admixture of the light-colored grape-sugar, after it has washed the crystals, especially when the goods are worked over three or four times.

I claim as my invention—

The process of cleansing or purging sugars by means of a solution of grape-sugar or glucose, in the manner substantially as described.

A. H. TAIT.

Witnesses:

CHARLES MOTT,  
CHARLES MASON.