United States Patent Office.

JULES HENRI LAVOLLAY AND GUSTAVE EUGÈNE BOURGOIN, OF PARIS, FRANCE.

PROCESS OF REFINING PERFUMES.

SPECIFICATION forming part of Letters Patent No. 666,534, dated January 22, 1901.

Application filed July 10, 1900. Serial No. 23,092. (No specimens.)

To all whom it may concern:

Be it known that we, Jules Henri Lavol-Lay, chemical engineer, and Gustave Eu-Gène Bourgoin, mechanical engineer, of 3 5 Rue Froment, Paris, in the Republic of France, have invented a new Process of Refining Perfumes, of which the following is a specification.

The object of the present invention is the refining of perfumes. The delicacy of a perfume depends largely upon the degree of oxidation of the essences which compose it. Fresh essences give a sharp crude perfume, often actually disagreeable. A variety of processes having this object in view have been proposed; but those which gave good results have hitherto proven too costly for general use. By the practice of the present invention we are enabled to produce this desirable result reliably and with relatively small cost.

Our process consists in subjecting the crude essences, separate or mixed, to the combined action of a finely-powdered alkaline-earthmetal manganate and electric current. We have found that insoluble manganates in suspension can be made efficient for the purpose named by using them as stated in combination with an electric current.

The apparatus employed forms no part of our invention, and it will be understood that any form of apparatus known as appropriate to those skilled in the art will answer.

In carrying out our process the cold essences are placed in an appropriate closed vessel, and calcium manganate (for instance)

is added in the proportion of from twenty to fifty grams per hectoliter of essence. Any means may be employed for keeping the powdered manganate in suspension, and the current is applied for not more than twenty minutes or thereabout, said current having a density of from three to ten amperes per square meter.

The above-described method of treatment is superior to the use of ozone in that it is 45 cheaper, more energetic, and is, moreover, easily regulated.

What we claim is—

1. The method of rendering insoluble manganates efficient for the refining of perfumes 50 which consists in reducing the insoluble manganate to a powder, maintaining the same in suspension in the perfume or essence to be refined and passing an electric current through said essence during such suspension.

2. The method of refining essences which consists in maintaining in suspension in cold essence a powdered alkaline-earth-metal manganate and simultaneously subjecting said essence and manganate to the action of an 60 electric current.

In witness whereof we have hereunto signed our names, this 23d day of June, 1900, in the presence of two subscribing witnesses.

JULES HENRI LAVOLLAY.
GUSTAVE EUGENE BOURGOIN.

Witnesses:

AUGUSTE TOURNOL, PAUL TOURNOL.