

UNITED STATES PATENT OFFICE.

JAMES KNIGHTS, OF BIDDEFORD, MAINE.

IMPROVEMENT IN MEDICAL COMPOUNDS OR LINIMENTS.

Specification forming part of Letters Patent No. 130,644, dated August 20, 1872.

Specification describing a certain Compound called Ammoniated Opodeldoc, invented by JAMES KNIGHTS, of Biddeford, in the county of York and State of Maine, to be used externally upon the person as a liniment, bath, or fomentation, and has been found to be very valuable as an anodyne, very readily alleviating pain, and effecting a cure in cases of rheumatism, neuralgia, diphtheria, nervous headache, cramp, spasmodic croup, and a great variety of other diseases where an externally-applied anodyne is desired to be exhibited.

Beyond the usual and general effects of the ingredients of which this article is composed it has been found that, by the combination which is hereinafter described, effects of a very marked and valuable description in allaying pain and arresting certain diseases have been found to ensue which none of the component parts of this mixture could have alone, and which are essentially peculiar to them as herein combined.

To prepare this compound first take one gallon of alcohol; to this add one-fourth pound (fluid) of oil of anise. Then, after awaiting the action of the chemical affinity between these two ingredients, take of aqua-ammonia of the twenty-sixth degree a quantity equal in amount to one-third of the whole amount desired to be made; to which add, in the proportion of one dram to each four ounces, of sub-nitrate of bismuth, and in the proportion of one grain to each ounce of compound of atropia. Then to one and one-half gallon of water add one pound of the sal-soda of commerce and one pound of white Castile-soap; or any other detergent may be used if possessing the saponaceous

qualities of this herein-mentioned soap. All the herein-mentioned ingredients are then to be thoroughly mixed, care being taken to aid and further the natural affinities between such of the ingredients as have affinity each for the other by exposing them to such conditions and temperatures as may be necessary to amalgamate the whole.

The above order of mixing is not arbitrary, the operator being guided, in adding and combining the different ingredients, by their natural chemical affinity and sympathy for each other. It will, of course, be observed that a greater or less amount of the compound may be made by using these ingredients in the same proportions in greater or less quantities. It will also be seen that some of these ingredients may be exchanged for others of the same general character and yet retain the distinctive character of the compound, as, in the case of the oil of anise, other vegetable oil may be substituted, if desired. Other substitutions will also readily suggest themselves, by means of which, if some of the minor of these ingredients cannot be obtained, still the same desirable results heretofore enumerated, but perhaps not in the same degree, will be effected.

What I claim as my invention, and desire to secure by Letters Patent, is—

A compound composed of the ingredients and substantially in the proportions and for the purposes herein set forth.

JAMES KNIGHTS.

Witnesses:

JOHN PARKER,
D. W. SRIENER.