

Licensing and Technology Transfer Opportunity

Title of Technology Available: Method system and apparatus for dispensation of the cryogen

Brief Description of Invention:

In the present disclosure the outlet pipe is insulated using a foam based protecting insulator. According to another aspect of the present disclosure, another cryogen delivery device comprising a can containing a cryogen preferably tetrafluoroethane is connected to an outlet nozzle. In another embodiment of the present disclosure, the outlet nozzle of the device is held close to the surface of the tissue. In another embodiment of the present disclosure, the cryogen from the can is dispensed by pressing the spray head held facing downwards so that most of the spray is delivered in liquid form.

Brief Background of Invention:

The present product is generally related to Dental Aesthetics and more specifically to the Method, system and apparatus for dispensation of the cryogen. The device containing tetrafluoroethane is better than the conventional liquid nitrogen use, the temperature regulation is not required using this technique, the device can dispense required amount of the cryogen tetrafluoroethane and the material can be applied directly over the site during de-pigmentation procedure.

Describe the final product:

A cryogen delivery device comprising a can containing a cryogen preferably tetrafluoroethane is having a control valve connected to an out let pipe via a supply pipe to deliver the cryogen to the site. In one embodiment of the present disclosure, the supply pipe contains a control valve for controlling/regulating the cryogen delivery. In another aspect of the present disclosure the cryogen can is connected to the control valve by a connected pipe.

Technological Domain (Keywords):

Cryogen, nozzle, regulating pipe, control valve, Spray tip

Proof of Concept:

It has been successfully used in the treatment to remove the pigmentation from the skin and in the gums.

Stage of Development:

Ready to Market technology

Provide Information on Competitors who manufacture and/or sell similar products: NA

What are the unique advantages your innovation has compared to the competition?

It is a hand held device and is portable. Compared to the devices that dispense the cryogen liquid nitrogen that is transferred in large containers. It also has the advantage of ease of application and use since the cryogen is dispensed through the nozzle compared to any other dispenser where the dispenser is a very large outlet pipe. Further it has an advantage of being compact and portable hence can be kept close to the patient.

A few potential companies who might be interested in this technology:

Intellectual Property Status: Indian Patent application with number **349/CHE/2014** filed in

2014