

# The structure of nano-sized carrier for dentin hypersensitivity relief

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### **Experience:**

https://www.mc.ntu.edu.tw/dent/Vcard.action?q type=-1&q itemCode=197

#### Market Needs:

Nowadays, no products or chemicals could immediately provide effective and long-term relief for dentin hypersensitivity due to exposed dentinal tubules. The exposed dentinal tubules could also lead to dental caries, broken teeth, tooth abrasion, apical fenestration, periapical cyst, pulpitis, apical periodontitis, pulp necrosis, or endodontic-related disease.

### Our Technology:

This technique concerns the structure of nano-sized carriers, especially for the structure of nano-sized carriers for dentin hypersensitivity relief.

## Strength:

Nowadays, the chemical and physical desensitization agents for dentin hypersensitivity in clinical couldn't provide long-term relief and even lead to teeth staining. When our nano-sized structure is applied on the exposed-dentin tooth, the fast-forming precipitation could be the occlusion agent providing rapid and effective treatment in exposed dentinal tubules-related diseases. Besides, the sufficient occlusion depth of the precipitation could also provide long-term treatment.

## **Competing Products:**

N/A

## **Intellectual Properties:**

- 1. Our team possesses solid experience in the development of novel dentinal tubules occlusion agents. We are dedicating the biomaterials that could provide deep dentinal tubules occlusion, long-term treatment, and harmless to the pulp.
- 2. We have developed novel biomaterials to treat dentin hypersensitivity, including DP bioglass (TW101120084, US13922976) and mesoporous silica (TW106130628, EP20160798549).

## Contact (do not need to fill out):

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