

Title (en)  
DENTAL TREATMENT METHODS

Title (de)  
ZAHNMEDIZINISCHE BEHANDLUNGSMETHODEN

Title (fr)  
TECHNIQUES DE TRAITEMENT DENTAIRE

Publication  
**EP 1027007 A4 20021023 (EN)**

Application  
**EP 99939061 A 19990806**

Priority  

- US 9917879 W 19990806
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Abstract (en)  
[origin: WO0009030A1] Disclosed are two methods for coating teeth so as to protect the tooth surfaces from caries and periodontal diseases and optionally paints teeth at a desired color. The anti-caries protection is due to the blocking of the enamel minerals that exit the enamel in order to balance the acidic environment that is created by the bacteria acids. The periodontal diseases protection is due to the low surface tension that is created after the application of specific substances on the enamel, i.e., makes the enamel more slippery. The painting effect comes from the colors that the applied substances have. One embodiment includes three steps: etching of the teeth, application of the protective and painting substance and sealing of the teeth (optional). Another embodiment relates to the implantation of a material in the outer layer of the tooth enamel or dentin or cementum and involves an implantable material, polymer or ceramic, fixed in place by use of a dental laser or a flame. This method also includes three steps: the dental tissue is etched and dried, the material is applied into the tissue, the laser beam or the flame melts the material into the tissue and finally the irradiated spot is air dried.

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**A61C 5/00**

IPC 8 full level  
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CPC (source: EP US)  
**A61C 5/00** (2013.01 - EP US)

Citation (search report)  

- [X] US 3986261 A 19761019 - FAUNCE FRANK R
- [A] US 4224072 A 19800923 - STEWART LYGIA
- See references of WO 0009030A1

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