

**METHOD FOR PREPARING A BONE FILLER MATERIAL AND MATERIAL
PREPARED BY SUCH A
METHOD**

ABSTRACT

The invention concerns a method for obtaining a material for the constitution of an osteomimetic endo-osseous implant of medical or veterinary use, characterized in that it comprises the steps consisting in:

- 5 i. obtaining a homogeneous mixture consisting in a biocompatible thermoplastic polymer and tricalcium phosphate in the beta form (β TCP),
- ii. subjecting that mixture to an injection or extrusion molding operation by a screw injection machine, at an injection temperature at least
10 equal to the melting temperature of the aforesaid polymer and a pressure ranging between 70 MPa and 140 MPa so as to transform the aforementioned tricalcium phosphate into a non-stoichiometric calcium apatite $3(\text{Ca}_3(\text{PO}_4)_2)(\text{OH})_2\text{Ca}$ similar to the bone's one.

The invention also relates to a material obtained by such a method and an
15 endo-osseous implant made of such a material.

Figure 2