United States Patent [19]

Bryan et al.

[11] **4,073,999**

[45] **Feb. 14, 1978**

[54] **POROUS CERAMIC OR METALLIC COATINGS AND ARTICLES**

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[21] Appl. No.: **576,110**

[22] Filed: **May 9, 1975**

[51] **Int. Cl.**[2] **A61F 1/00**; B01J 21/00

[52] **U.S. Cl.** ..... **428/311**; 428/312; 428/332; 427/226; 427/376 A; 427/376 B; 427/376 G; 128/92 C; 3/1; 428/546; 428/548; 252/461; 252/463

[58] **Field of Search** ..... 427/383, 287, 226, 196, 427/191, 180, 2, 376 AB, 376 G; 29/182, 182.5; 75/200, 201; 128/92 C, 214 R; 3/1; 428/311, 312, 332; 252/461, 463

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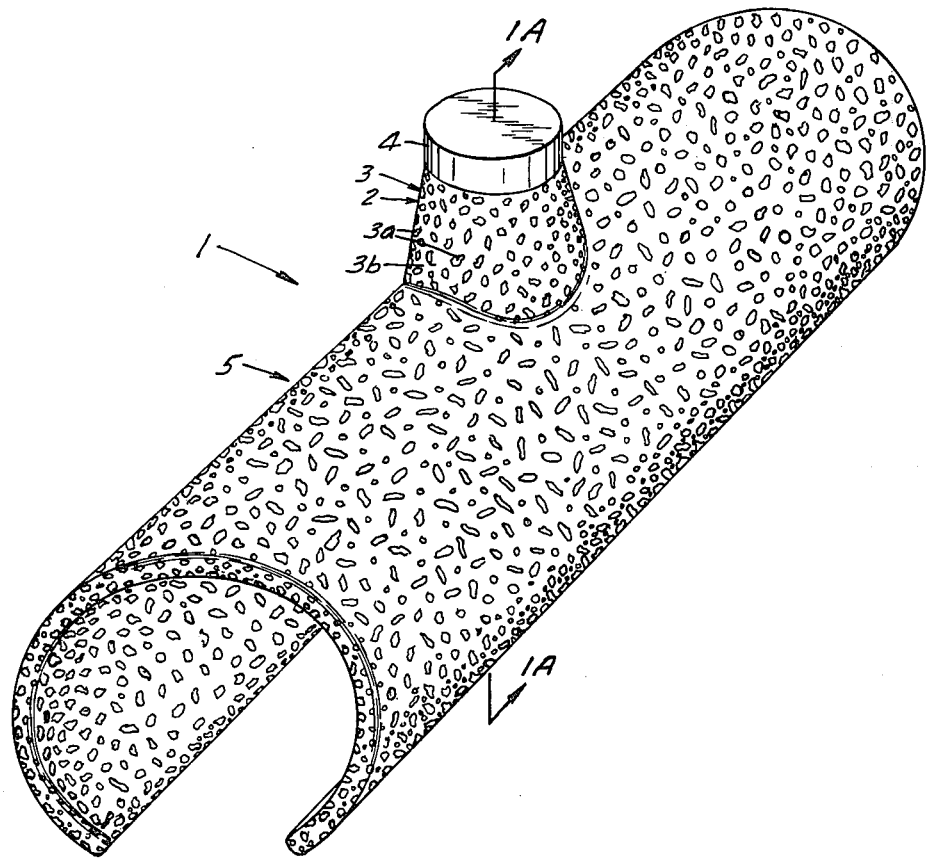
[57] **ABSTRACT**

A method for preparing porous ceramic or metallic coatings on substrates and preparing perforated articles which are ceramic or metallic; the method involving utilization of a composition comprising ceramic powder or metallic powder, binder, and solvent whereby at least a portion of the solvent is rapidly volatilized to obtain the porosity in the ceramic or metallic material. The coated substrates and perforated articles are useful for example, as prosthetic devices, catalyst supports, and bone supplementation material.

20 Claims, 5 Drawing Figures