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x is greater than or equal to zero but less than 1;  
 y is greater than or equal to zero but less than 1;  
 z is greater than or equal to zero but less than 1;  
 x+y+z is greater than zero but less than 1;  
 i is greater than or equal to 2 but less than or equal to 4; and  
 j is equal to 4- $\delta$ , where  $\delta$  is greater than or equal to zero but  
 less than or equal to 1.

38. The device of claim 32, wherein said calcium based ceramic material comprises Skelite®.

39. The device of claim 32, wherein said body includes a tool engagement portion substantially free of said matrix, said tool engagement portion being at least partially surrounded by said matrix and filler material and including a threaded aperture formed therein.

40. An implantable medical device, comprising:

a body configured for positioning between a first vertebral body and a second vertebral body adjacent to the first vertebral body, the body including an external surface defining an outer profile of said device, said outer profile including a D-shape configured for positioning in a disc space between the first and second vertebral bodies, the external surface including a top portion and a bottom portion oppositely positioned, the top and bottom portions having projections configured to engage with the first and second vertebral bodies and resist expulsion of said device, the outer profile including sidewalls extending around and enclosing a hollow chamber configured for a bone growth enhancing material, said body further including:

a bioresorbable ceramic matrix having a compressive strength of about 10 MPa and including a series of interconnected macropores defined by a plurality of interconnected struts, said interconnected struts each including a hollow interior, said hollow interiors defining interconnected passages that are hollow upon implantation of said device, said interconnected passages being isolated

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from said series of interconnected macropores, the bioresorbable ceramic matrix comprising a calcium based ceramic material defined by a compound that includes elements of calcium, oxygen and phosphorous, wherein a portion of at least one of said elements is substituted with an element having an ionic radius of about 0.1 to about 0.6 Å;

a biologically stable polymeric material infused throughout and substantially filling said series of interconnected macropores; and

wherein said plurality of interconnected passages are substantially free of said polymeric material.

41. The device of claim 40, wherein at least a portion of said plurality of interconnected passages extends through and opens at said external surface.

42. The device of claim 41, wherein at least a portion of said external surface is defined by an exposed area of said polymeric material and one or more exposed areas of at least a portion of said plurality of interconnected struts, at least one of said one or more exposed areas of said portion of said plurality of interconnected struts surrounding at least one of said portion of said plurality of interconnected passages extending through and opening at said external surface.

43. The device of claim 42, wherein biological activity that occurs when said body is positioned between adjacent vertebral bodies progressively removes and replaces said one or more exposed areas of said portion of said plurality of interconnected struts with new bone, and creates bone and tissue ingrowth into said portion of said plurality of interconnected passages extending through and opening at said external surface.

44. The device of claim 40, wherein said polymeric material is selected from the group consisting of polyetheretherketone (PEEK), carbon-reinforced PEEK, and polyetherketoneketone (PEKK).

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