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(54) Title: VASCULAR CASTING AND APPLICATIONS THEREOF

(57) Abstract: A method of preparing a structure is provided. The method includes providing an initial structure; casting a first material in one or more void volumes of the initial structure; removing the initial structure from the first material; obtaining a cast structure comprising the first material; coating a second material on the cast structure; casting a third material using the coated cast structure; removing the first material; and obtaining a final structure. In various embodiments, the initial structure can include a first initial structure and a second initial structure and casting a first material in one or more first void volumes of the first initial structure and in one or more second void volumes of the second initial structure. In various embodiments, the method includes assembling the first cast structure and the second cast structure and obtaining an assembled structure comprising the first cast structure and the second cast structure.



WO 2022/249038 A1