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(54) Title: MICROWAVE ENHANCED CONCRETE PULTRUSION

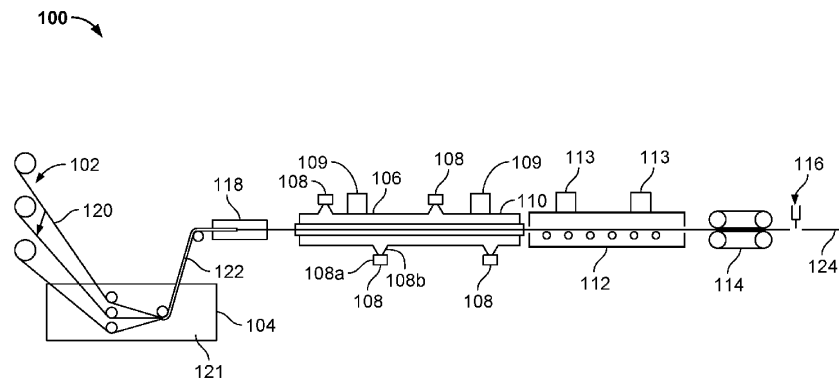


FIG. 1

(57) Abstract: Method (300), system (100) and apparatus for performing pultrusion moulding with concrete. One exemplary method (300) includes (i) conveying a textile material (120) through a concrete infusion system (104) to provide a concrete infused textile material (CITM); (ii) heating and shaping the CITM by conveying the CITM through a microwave chamber (106) comprising an electrically non-conductive die (110) disposed therein, the microwave chamber (106) operable to heat concrete infused in the textile material (120) by irradiating the CITM with microwave energy as the CITM is conveyed through the microwave chamber (106), and the die (110) operable to shape the CITM as the CITM is conveyed through the microwave chamber (106); (iii) cooling the CITM by conveying the CITM through a cool down chamber (112) operable to maintain heat in the CITM as the CITM is conveyed through the cooling chamber (112), allowing the concrete to cure while a temperature of the CITM is reduced.

[Continued on next page]

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