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(57) Abstract :

A Humovascomimetic Livingcrete (HVML) system 200 comprising: a concrete slab with crack 201 caused in case a part of a concrete slab breaks and exposed to atmosphere; a first Humomimetic web unit 202 made for a cohesive bio-spore solution to flow under pressure to promote a precipitation of collagecite which helps to seal the crack on concrete slab 201; and a second Humomimetic web unit 203 made for a bio-nutrient solution to flow connected to a storage tank where a cohesive bio-nutrient solution serves as a source of nourishment for the living organisms, and it includes nitrogen sources, carbon sources and calcium sources which induces the deposition of collagecite, wherein the Humovascomimetic Livingcrete (HVML) system 200 has two grids within the concrete to repair cracks without external intervention and for a continuous supply of nutrients and living organisms through biomimetic grid or networks with pH sensitive polymers, and different patterns such as triangular, rectangular, pentagonal, hexagonal, octagonal, and circular routes. << FIG. 2A>>

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