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Patent Search

Invention Title	AN APPARATUS AND METHOD FOR CO2 MINERALIZATION INTO CONCRETE	
Publication Number	42/2022	
Publication Date	21/10/2022	
Publication Type	INA	
Application Number	202231045308	
Application Filing Date	08/08/2022	
Priority Number		
Priority Country		
Priority Date		
Field Of Invention	CHEMICAL	
Classification (IPC)	C04B004000000, C04B0028020000, B28C0007040000, C04B0103460000, H01L0021321000	
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Abstract:

The present invention relates to an apparatus and method for the mineralization of CO2 into concrete. The object of the present invention is to mineralize CO2 into c getting the two-fold benefit, firstly, improving concrete properties and secondly utilizing the captured CO2. The method disclosed in the present invention is, firstly, the amount of CO2 sequestrated into cement slurry in a container, having nut and bolt so that it can be closed air tightly after making cement slurry into it. A valve is prothe container through which CO2 is applied into the container after closing is airtight. The container is kept on a weighing balance to weight the amount of applied Container. In the second step, the cement slurry sequestrated with CO2 and others ingredient of concrete is mixed.

Complete Specification

Description: TECHNICAL FIELD OF INVENTION:

The present invention generally relates to a system and method of beneficial utilization of captured CO2 in concrete production, which results a wide range of redu the greenhouse gas effect, reduces global warming, and improves the concrete's strength and durability compared to conventional concrete produced without CO2mineralization.

BACKGROUND OF THE INVENTION:

The background information herein below relates to the present disclosure but is not necessarily prior art.

In general, global warming is the gradual increase in the overall temperature of the earth's atmosphere due to the greenhouse effect caused by increased levels of greenhouse gases such asCO2,methane, and water vapor.Greenhouse gas absorbs infrared radiation (net heat energy) released from Earth's surface and radiates in Earth's surface, contributing to the greenhouse effectleading to global warming. Global warming has become a serious concern due to the momentous emission of anthropogenic greenhouse gases.Global warming caused by the rise in atmospheric CO2 concentration remains a challenge to be short out by this generation.

View Application Status



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Page last updated on: 26/06/2019