

10 results for (Method and system and carbonating a concrete and CO2)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX - Collection: FAMPAT

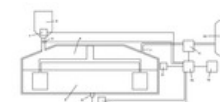
#	 Title	Publication number	1st app. date	Applicant/Assignee		
1.	System and method of applying carbon dioxide during the production of concrete	CA2900049	2014-02-03	CARBONCURE TECHNOLOGIES* CARBONCURE TECHNOLOGY COLD CLEAT COLDCRETE	100 %	

The present disclosure involves systems and methods for applying **CO2** to concrete, which may be performed in-situ or through a separate, stand-alone process. According to another embodiment disclosed herein, a **system** and **method** for applying **CO2** to one or more materials used in the production of concrete is also provided.



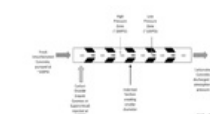
2.	Methods and compositions for concrete production	CA2968246	2015-11-24	CARBONCURE TECHNOLOGIES CARBONCURE TECHNOLOGY*	88 %	
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The invention provides compositions and methods directed to carbonation of a cement mix during mixing. The carbonation may be in a stationary mixer or a transportable mixer, such as a drum of a ready-mix truck.



3.	Carbonation of cement mixes	WO2015123769	2015-02-18	CARBONCURE TECHNOLOGIES*	84 %	
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The invention provides methods and compositions for carbonation of cement mixes using pressurized carbon dioxide delivered to the mix.

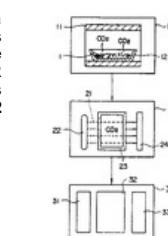


4.	Filler for rubber	JPH06256581	1993-03-10	ASAHI CHEMICAL INDUSTRY*	79 %	
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PURPOSE:To obtain the subject filler consisting of a carbonated calcium silicate hydrate having a specified average particle diameter, capable of improving vulcanization characteristics such as vulcanizing rate in molding while improving dynamic physical properties such as strength of rubber itself and excellent also in moldability. CONSTITUTION:This filler consists of carbonated calcium silicate hydrate having <=5μm, preferably 1-3μm average particle diameter. As the carbonated calcium silicate, a substance obtained by using light-weight cellular concrete called as ALC as calcium silicate and simultaneously carbonating the concrete in 100% carbonation degree is preferably used. The carbonation is e.g. carried out by allowing the ALC powder to stand in 100% **CO2** gas atmosphere.

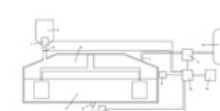
5.	Method for measuring degree of carbonation of concrete building material	JPH03100460	1989-09-13	MISAWA HOMES*	58 %	
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PURPOSE:To easily measure the degree of carbonation of a building material by burning the material to be measured with oxygen and converting the carbon-component in the sample to carbon dioxide. CONSTITUTION:The material to be measured is first cut, dried and pulverized. The building material is then weighed and is put into a container 12. The container 12 is disposed in a combustion section 20. The carbon-component in the sample 1 is converted to the carbon dioxide and gaseous **CO2** is generated when the sample 1 is heated to about 1,200 deg.C to burn by a heater 11 under the gaseous oxygen flow. The generated gaseous **CO2** is transported in the gaseous oxygen flow and is introduced into a cell 23 of an IR detecting section 20. The IR rays 21 radiated from an IR light source 22 transmit the cell 23 and arrives at an IR detector 24 where the IR rays are converted to the AC signal corresponding to the concn. of the gaseous **CO2** in the cell 23. The AC signal outputted from the detector 24 is converted to a digital signal in a measuring section 30 and is inputted to a microcomputer 32. The linearization processing, conversion and integration of the gaseous **CO2** are executed by a computer 32 and further, the correction of the blank value and the sample weight is executed by calibration equation. The results are displayed.



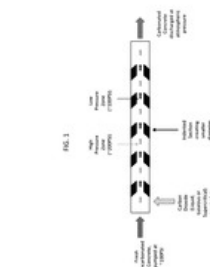
6.	Methods and compositions for concrete production	CA2979471	2014-06-25	CARBONCURE TECHNOLOGIES CARBONCURE TECHNOLOGY*	51 %	
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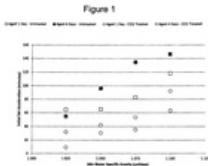
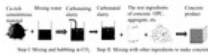
The invention provides compositions and methods directed to carbonation of a cement mix during mixing. The carbonation may be controlled by one or more feedback mechanisms to adjust carbon dioxide delivery based on one or more characteristics of the mix or other aspects of the mixing operation.



7.	Carbonation of cement mixes	US20170043499	2016-08-18	CARBONCURE TECHNOLOGIES*	41 %	
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The invention provides methods and compositions for carbonation of cement mixes using pressurized carbon dioxide delivered to the mix.



8.	Methods and compositions for treatment of concrete wash water	WO2018232507	2018-06-20	CARBONCURE TECHNOLOGY*	38 %
The invention provides methods and compositions for treating wash water from concrete production with carbon dioxide. The treated wash water can be reused as mix water in fresh batches of concrete.					
					
9.	Addition of carbon dioxide to concrete mixtures	CA2924420	2016-03-21	UNIVERSITY OF ALABAMA*	38 %
A method for reducing the net amount of carbon dioxide generated in the manufacture of concrete by pre-carbonating calcium rich cementitious materials prior to the addition of ordinary Portland cement is disclosed. Additionally, a composition of concrete is disclosed, which is manufactured by using a mixture of pre-carbonated cementitious materials and ordinary Portland cement.					
					
10.	Methods and compositions for treatment of concrete wash water	CA3019860	2017-04-11	CARBONCURE TECHNOLOGIES CARBONCURE TECHNOLOGY*	28 %
The invention provides methods and compositions for treating wash water from concrete production with carbon dioxide. The treated wash water can be reused as mix water in fresh batches of concrete.					
					