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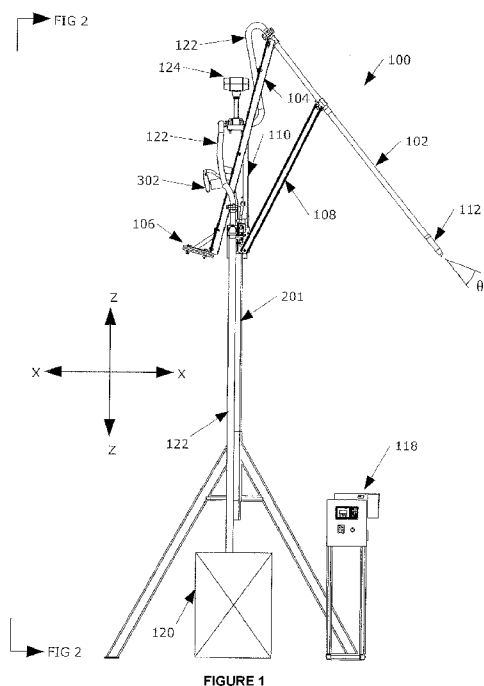
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(54) Title: SYSTEM AND PROCESS FOR INTRODUCING A RIGID LANCE INTO A CONCRETE MIXING TRUCK USING AN ARTICULATED ARM



(57) Abstract: A present invention provides for a system (100) for injecting cooling fluid into a concrete mixing container (502), the system (100) comprising a support structure (116) having a leg assembly with two or more supporting legs (201) and a cross member beam (200) supported between said two or more legs (201), the two or more legs (201) and the cross member beam (200) being positioned with respect to one another in such a manner as to define a passageway (210) of sufficient height (H) and width (W) between the two or more legs (201) and beneath the cross member beam (200) to allow passage of a concrete mixer truck (504) through the passageway (210) and a lance device (190) positioned on the cross member beam (200) of the support structure (116), the lance device (190) comprising an articulated arm that includes a rigid lance (102) which allows for the flow of a cooling fluid there through; and a means for acting on the articulated arm to cause pivotal movement of the articulated arm in a non-linear motion thereby controlling the angle of the rigid lance (102) while at the same time controlling the insertion and retraction movement of the rigid lance (102) into the concrete mixing container (502) for fluid injection of the cooling fluid into the concrete mixing container (502). The present invention further comprises a process for injecting cooling fluid into a concrete mixing container (502).



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