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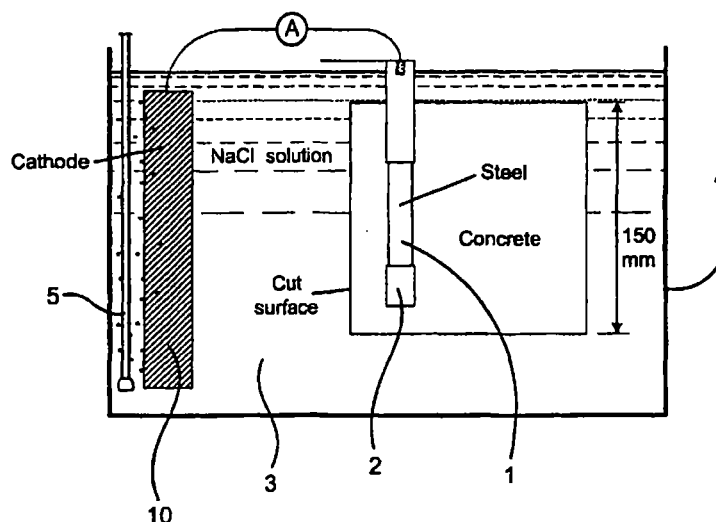
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(54) Title: PROCESS FOR THE PROTECTION OF REINFORCEMENT IN REINFORCED CONCRETE



(57) Abstract: The invention provides a reinforced concrete having improved corrosion resistance in which the content of voids in the concrete at the surface of the steel reinforcement is below 0.8 %, preferably below 0.5 %, more preferably below 0.2 % by area of steel and in which there is a layer of solid alkali, preferably at least one micron in thickness on the steel surface. The reinforced concrete preferably has a chloride threshold level of at least 0.5 % preferably at least 0.8 % by weight of the cement. The invention also provides a process for reducing corrosion of steel reinforcement in concrete which comprises forming a reinforced concrete in which the voids at the steel surface are below 0.5 % by volume and in which there is a layer of solid alkali on the steel surface the layer being at least 1 micron in thickness and covering at least 20 % of the steel surface.

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