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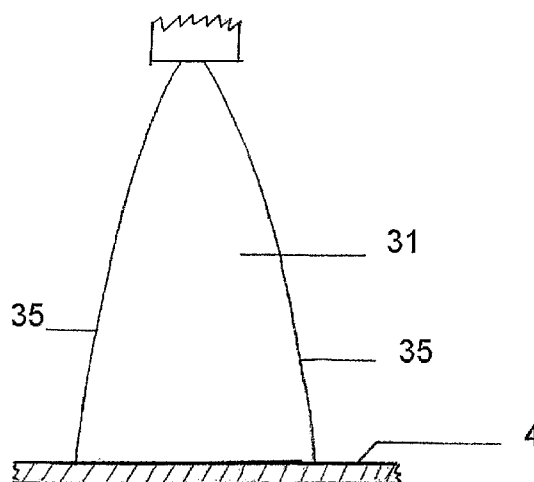
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(54) Title: AIRLESS SPRAY-COATING OF A SURFACE WITH A VISCOUS AQUEOUS ARCHITECTURAL COATING COMPOSITION



(57) Abstract: A process for the airless spray-coating of a surface with a viscous aqueous non-Newtonian architectural coating composition wherein the composition contains a preferably associative thickener and is subjected to a pressure of from 2.5 to 5 bar generated preferably by hand-operated compressor and then sprayed from a preferably slot-shaped outlet orifice (52) in a nozzle (50) to produce an outflow (31) of composition having boundaries (35) which diverge at least until it has formed a front of at least 30mm in width. The composition preferably has a Brookfield viscosity of at least 0.5 pa.sec and a solids content of 7 wt %. Also apparatus for performing the process comprising a container containing the coating composition together with a nozzle having an outlet orifice, a hand-operated compressor and a pressure release valve actuatable in the pressure range 2.5 to 5 bar and preferably an auxiliary orifice upstream of the outlet orifice. The process and apparatus enable the viscous compositions to be applied quickly using low pressures easily generated by a hand compressor.

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