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(54) Title: METHODS FOR PRODUCTION OF HIGH CONCENTRATION OF ARGININE BICARBONATE SOLUTION AT HIGH PRESSURE

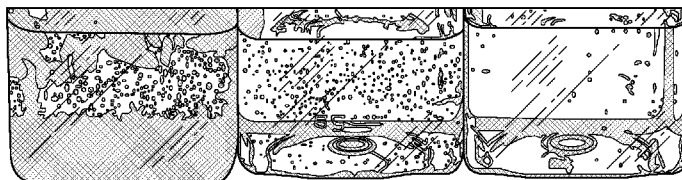


FIG. 1

(57) Abstract: Methods of producing arginine bicarbonate solutions in very high concentrations including reacting an arginine slurry containing a first portion of arginine with a source of carbon dioxide gas at elevated pressure and temperature, adding subsequent portions of arginine to the resulting solution and further reacting with compressed carbon dioxide until a final solution containing in excess of 50% by weight are provided which include preparing an arginine solution by subjecting an arginine water slurry to elevated pressure and reacting the arginine solution with a source of carbon dioxide gas to form a solution comprising arginine and bicarbonate anion and recovering arginine bicarbonate from the solution.

