

Title (en)
VIBRATORY PROCESSING ARRANGEMENTS

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Application
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Abstract (en)
[origin: EP0228816A1] A vibratory processing arrangement including an apparatus comprising three main stages. Namely, a high level waste vibrating impregnator (A), a vibrating calciner (B) and a vibratory powder mixer (C). The waste impregnator (A) comprises a downwardly inclined trough (1) having flexible mountings (2) and a vibrator (3) at its upstream end, a hood structure (4) and a series of liquid sprays (5) connected to a high level waste supply tube (6). The vibratory calciner (B) comprises a downwardly inclined tube (12) connected to downstream discharge tube (14). The discharge tube (14) has an inlet pipe (15) for entry of reducing gas. The reducing gas passes upwardly through the tubes (14, 12) to a gas discharge take-off tube (16) near the upstream end of the tube (12). A vibrator (18) is tuned to provide the desired flow rate through tube (12). Calcined discharge powder falls downwardly into the vibratory mixer (C), which has a vibratory actuator (20) and flexible mountings (21). Titanium powder is introduced into the vibratory mixer (C) through a secondary inlet (23) and is intimately mixed with the calcined discharged powder before being discharged into respective canisters.

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