

Title (en)
PROCESS AND APPARATUS FOR PRODUCING CELLULATED VITREOUS PRODUCTS.

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG ZELLULARER GLASPRODUKTE.

Title (fr)
PROCEDE ET APPAREIL DE PRODUCTION DE PRODUITS CELLULAIRES VITREUX.

Publication
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Application
EP 80901280 A 19800125

Priority
US 8000077 W 19800125

Abstract (en)
[origin: WO8102196A1] The apparatus includes a plurality of extrudes (10, 110) which feed parallel ribbons (20, 120) of raw material along refractory rollers (35, 135) through successive chambers (30, 32) in a kiln and through an annealing lehr (80) to a cutting zone. The surfaces of the raw material (20, 120) are coated on three sides with a parting agent and on the side to be exposed, with a glaze or left uncoated. The firing chamber (32) of the kiln has opposed rows of burners (40) directed toward opposing ports (42). The rollers (35, 135, 36, 136) protrude through side walls and are supported on circumferentially spaced wheels (70a, 70b, 70c). Wheels (73a, 73b) synchronize the rollers. Manifold (56) connects the firing chamber (32) with the preheating chamber (30). The process uses a mixture of a small amount of soluble carbonaceous material and water with either a clay or silica charge to adjust the composition. Clay may be extruded as ribbons coated with parting agent and glaze, then fired, preheated, sintered above 2000 F, and annealed. Cellulated vitreous clay products are then cut. A silica charge with a silica sand surface may be pressed with a material to form plates, and then fired in the kiln to form a cellulated, vitreous product. Consumable, sectional trays are also disclosed.

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IPC 8 full level
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