

Title (en)
Heating-extruding and solidifying apparatus of combustible low-level radioactive wastes

Title (de)
Vorrichtung zum Extrudieren, Erhitzen und Verfestigen von brennbaren, schwach radioaktiven Abfallstoffen

Title (fr)
Appareil d'extrusion, chauffage et solidification de déchets combustibles de faible niveau de radioactivité

Publication
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Application
EP 98112545 A 19980707

Priority
EP 98112545 A 19980707

Abstract (en)
An apparatus for heating-extruding and solidifying combustible low-level radioactive wastes comprises a hopper 2 for temporarily storing combustible radioactive wastes and a heating-extruding axis 3 having an extruding screw, said heating-extruding axis being provided with a heating element at its cylinder. A rotary press 4 is located at the outlet of said heating-extruding axis 3 for heating and pressing heated and extruded wastes. Systems 15 and 19 are located around said rotary press 4 for performing simultaneous heating and cooling operation. Said rotary press 4 is provided with a lift type rotary pusher 5 for demolding pressed and solidified wastes. Accumulator 7 is disposed at the wastes carrying-out side of said rotary press 4. A forward and backward remover is disposed at the front of said accumulator 7 for pulling said molded wastes 8 on the lift pusher 5 and carrying said molded wastes 8 toward accumulator 7. An inhalation duct 10 is disposed at a location where gas generated from the outlet of said heating-extruding axis 3 and the inlet of said rotary press 4 is inhaled, i.e., at the top of said rotary press, said inhalation duct 10 being connected to a HEPA filter 11 through a duct. The outlet of said filter is connected to an inhalation fan 12, the outlet of said inhalation fan 12 being connected to a scrubber 13. Said scrubber 13 having a circulation water tank 14. <IMAGE>

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G21F 9/30

IPC 8 full level
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CPC (source: EP)
G21F 9/008 (2013.01); **G21F 9/308** (2013.01)

Citation (search report)

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- [A] EP 0310513 A1 19890405 - TECHNICATOME [FR]
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