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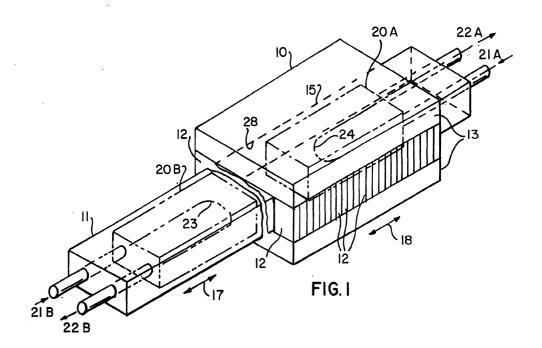
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(54) Low intensity magnetic separator

(57) A magnetic separator apparatus for separating magnetizable particles from a continuously flowing stream of particles in a flowing stream of fluid, including a housing with a tunnel therethrough and a carrier relatively movable reciprocally through the tunnel. The carrier has spaced filter elements containing magnetizable filter media and inlet and outlet streams of particles in a flowing fluid flow into each filter. The separation continues until a filter element becomes filled with particles,

at which time the filled filter element is removed from the magnetic field and replaced with a clean element to permit the separation to continue while the filled element is emptied and cleaned to be made ready for subsequent use. The housing is formed by a pair of magnetically permeable spaced plates with magnetic elements therebetween along sides of the tunnel. The elements may be permanent magnets, electromagnets, of superconductive magnets to create a low intensity field.





EUROPEAN SEARCH REPORT

Application Number EP 01 10 4607

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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15-05-2002

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