STABILIZATION AND REUSE OF ASH

Abstract of the Disclosure

A process and an apparatus for stabilizing and reusing incinerator ash and/or fly ash contaminated with a hazardous material such as a heavy metal. The apparatus (1) comprises an incinerator (4) for incinerating the incinerator ash to produce incinerated ash. The incinerated ash is fed to acid water reservation tanks (7a, 7b) where the heavy metal is allowed to be reacted with the acid water and produce a heavy metal solution and ash sludge. The solution is incinerated by a heavy metal solution incinerator (9) to collect the heavy metal. The ash sludge is dewatered by a hydroextractor (11) into swampy ash. The swampy ash is then sintered by a sintering furnace (14) into a sintered body and ground into particles.

Figure 1