

Abstract of Disclosure

In order to reduce the installation costs for carrying out a process of recycling unsorted batteries a substantially simplified process is proposed. In it the unsorted batteries as they arrive from the disposal collection are led from a feeding bunker (1) through a shredder (2) directly into a rotary furnace (3). In this process the shredded batteries are oxidatively burned at a temperature from 400 °C to 900°C for a period of preferably 45 to 90 minutes. The resulting combustion gases are led via a gas cleansing installation (7) consisting of the known elements dust filter (4), wet washing filter (5) and active charcoal filter (6). The oxidised product of combustion (P) resulting from the combustion is fed to the metal winning process (8).

The product of combustion (P) can be burned once again in a further or later step by the rotary furnace (3) after mixing with a reducing substance, coal, after which the resulting reductive product of combustion can again be fed to the metal winning process (8).

(Figure 1)