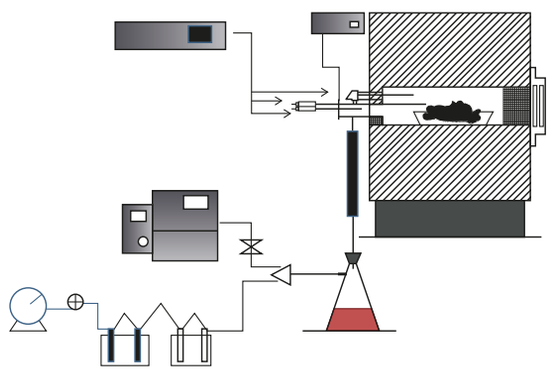
Copper briquette and method for its producing

Description of the solution:

The copper briquette contains copper concentrate, binder and recycled materials, and additionally contains printed circuit board (PCB) scrap in the quantity of 2-30% by weight. The method of manufacturing copper briquettes involves the following steps: a. copper concentrates are averaged; b. copper concentrates are mixed with recycled materials in a mixer to obtain an essentially homogeneous mixture, at the same time shredded printed circuit board (PCB) scrap is added in sufficient quantity; c. binder is dosed; d. the mixture is dried and mixed in a dryer; e. briquettes are formed from the mixture; f. fine fractions are separated from the briquettes.



Benefits of the solution:

- Obtaining a briquette with good physical and mechanical properties while using less primary raw materials.
- Solving the problem of decomposition of PCB scrap briquettes.
- Efficient use of waste materials (by using PCB scrap in the shaft process as a component of copper briquettes).

Area of application:

Metallurgy (metal recycling, processing of printed circuit boards (PCB) scrap)

Technological readiness level:

6

Intellectual property:

Invention: P.445559, EP24183838

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