

Fig. 3. The basic process of WEEE treatment (SRAB Company of Sweden).

Japan is in the lead of WEEE recovery. The Japanese NEC Company exploited a disposing technology, as shown in Figure 4 (Yokoyama and Ji, 1993). It utilized infrared heating and two-stage removing methods to

break perforated component and surface component off without any damage. By heating, impact force and surface deterioration technology, the solder was welded off to serve as raw material for refining lead and stannum.

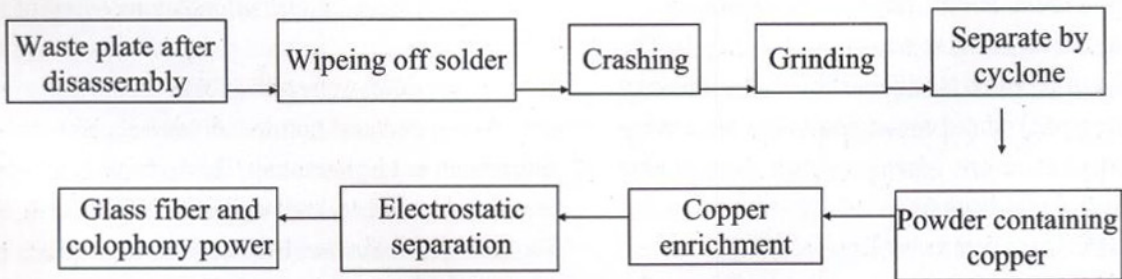


Fig 4. The treatment of discarded printed circuit board in NEC Company.

3. 1. The current tenchnology of WEEE recovery

The current tenchnology of WEEE recovery can be summarized in three categories as follow:

- High temperature treatment technology, including incineration, cracking, direct melting and so on;

- Chemical treatment technology, including pickling and corrosion;
- Mechanical and physical treatment technology, including crushing and separating.

The chemical and physical treatment is prevalent in the international because of little investment and little enviornmental pollution.