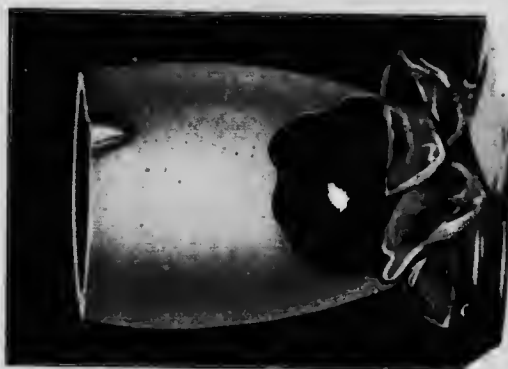


PLATE XLV.



SCALPED CRUCIBLE



PIN HOLE OR LEAK



ALLIGATOR CRACKS

Defects developed in crucibles by improper usage. Scalping and pin holes are caused by improper annealing. Alligator cracks may be due to sulphurous gases from impure coal or coke, or to the imperfect combustion of oil or gas fuel.