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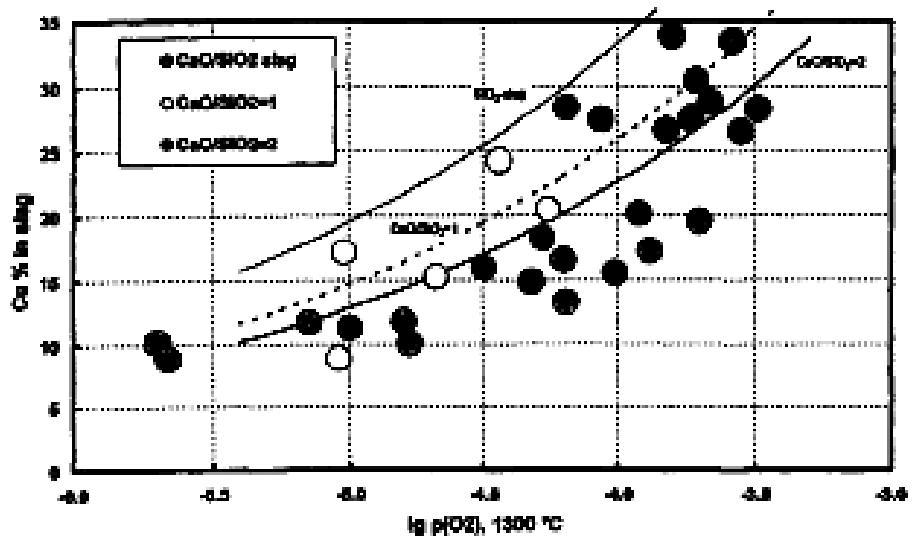
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(57) Abstract: The invention relates to a method to produce blister copper or high grade matte in a smelting reactor directly from a sulfidic copper concentrate containing material and/or finely ground copper matte, whereby oxygen-containing gas, copper concentrate and/or finely ground copper matte are fed into the reactor. According to the invention CaO and SiO₂ containing flux is fed into the smelting reactor along with oxygen-containing gas, copper concentrate and/or copper matte, and part of the copper in the concentrate and/or in the matte is oxidized in order to form a slag in which the CaO/SiO₂ ratio is higher than 1.5, and in which the copper content is in oxidized form and in which the lime content calculated in a CaO+SiO₂+FeO_x=100 system is higher than 20 %.



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(FIG.01)