

## DISCUSSION.

**Mr. W. B. Clarke** hoped that in Part III. of his Paper M. Minet would touch on the very important question of the determination of the temperatures at which reactions took place in the electric furnace, especially in resistance furnaces.

**The Chairman** thought he might describe a form of furnace that came outside any of M. Minet's classifications.

Some eight years ago, to overcome the difficulty in electrolysing fused salt, he proposed to electrolyse barium chloride to get barium, and to treat the fused salt with the barium. He therefore asked an assistant to try the experiment. In due course a lump of what was obviously cast iron was produced, the shape of the lower part of a crucible. The temperature employed had been so high that the fused salt lapped the iron off the inside of the crucible, and it ran to the bottom, filling it up, while the salt ran over the edges. He suggested that an inert salt like barium chloride heated electrically might be very useful in experiments on alloys, and for cases where high temperatures are wanted without contamination by carbon, or access of oxygen.

He asked the meeting to accord its hearty thanks to M. Minet for his Paper, and to Mr. Hutton, who had been good enough to come up specially from Manchester in order to read the Paper on M. Minet's behalf.

**M. Minet** (*communicated*) said that he was much touched by the kind reception that had been given to his paper, and which acted as an encouragement to him to complete his study. He hoped to deal then with the question raised by Mr. Clarke. He wished, in conclusion, to thank Mr. Hutton for so kindly acting as his substitute.