

that I carry out an idea of Mr. Worth's that the paper be enlarged, and that I touch on the question of placing of firebrick in the cupola. Now that would produce an argument, I fear, that it would take a whole lot of discussion to get through. It is a fact, however, that a great many foundrymen crowd their cupolas. Say if they have a cupola with a capacity of five tons they might crowd the cupola to eight tons. Now in order to do it they have to increase their blast and by increasing their blast they are simply burning out the lining and very frequently they condemn the firebrick when as a matter of fact it is not at fault.

If there are any questions that I can answer I would be very glad indeed to do so.

Chairman,—

Gentlemen—You have heard Mr. Woodison's paper, and he has very kindly volunteered to answer any question you may have to ask him. I presume that there will be a good many among you who are interested in firebrick, and I do not think there will be many questions that Mr. Woodison cannot answer. He is a man who has had a good many discussions with firebrick men all over the country, and I think he will be able to answer all questions. There should be a good discussion on this paper, and we are ready now for any of the members to take this question up.

Mr. Shill,—

Is there any trouble experienced with the pitting of the chemicals in firebrick when used in cupola.

Mr. Woodison,—

I should say not.

Mr. Shill,—

What experience have you had with brick you handle for furnace work.

Mr. Woodison,—

I would call your attention to the fact that any first class manufacturer should be able to give you a good soft brick high in silica and free from lime which would give you a very satisfactory brick for this class of work.

Mr. Baldwin,—

I would like to ask Mr. Woodison if he has had any ex-