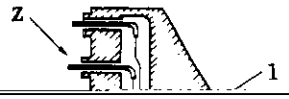
KAWASAKI STEEL TECHNICAL REPORT No. 5 May 1982

Continuous Measuring of Heat Pattern in Sintering Bed and Its Application to Sintering Operation*



2.2 Temperature Detector

The temperature measuring thermocouple is incor-

junction compensation, the wireless transmitter AM/

reached a peak (min)

3.2 Quantification of Heat Pattern

$$CT = -\frac{T_M - T_C}{t_M - t_2} \quad (°C/min) \quad \cdots\cdots\cdots (4)$$

For the purpose of evaluating sinter quality, Mizu-

Table 1 Simple correlation coefficients between Q values and shatter strength

Table 2 Simple correlation coefficients between CT values and FeO content (%) in sinter

the effects of the waste gas volume of suction or the

estimate changes in pallet speed as changes in the air

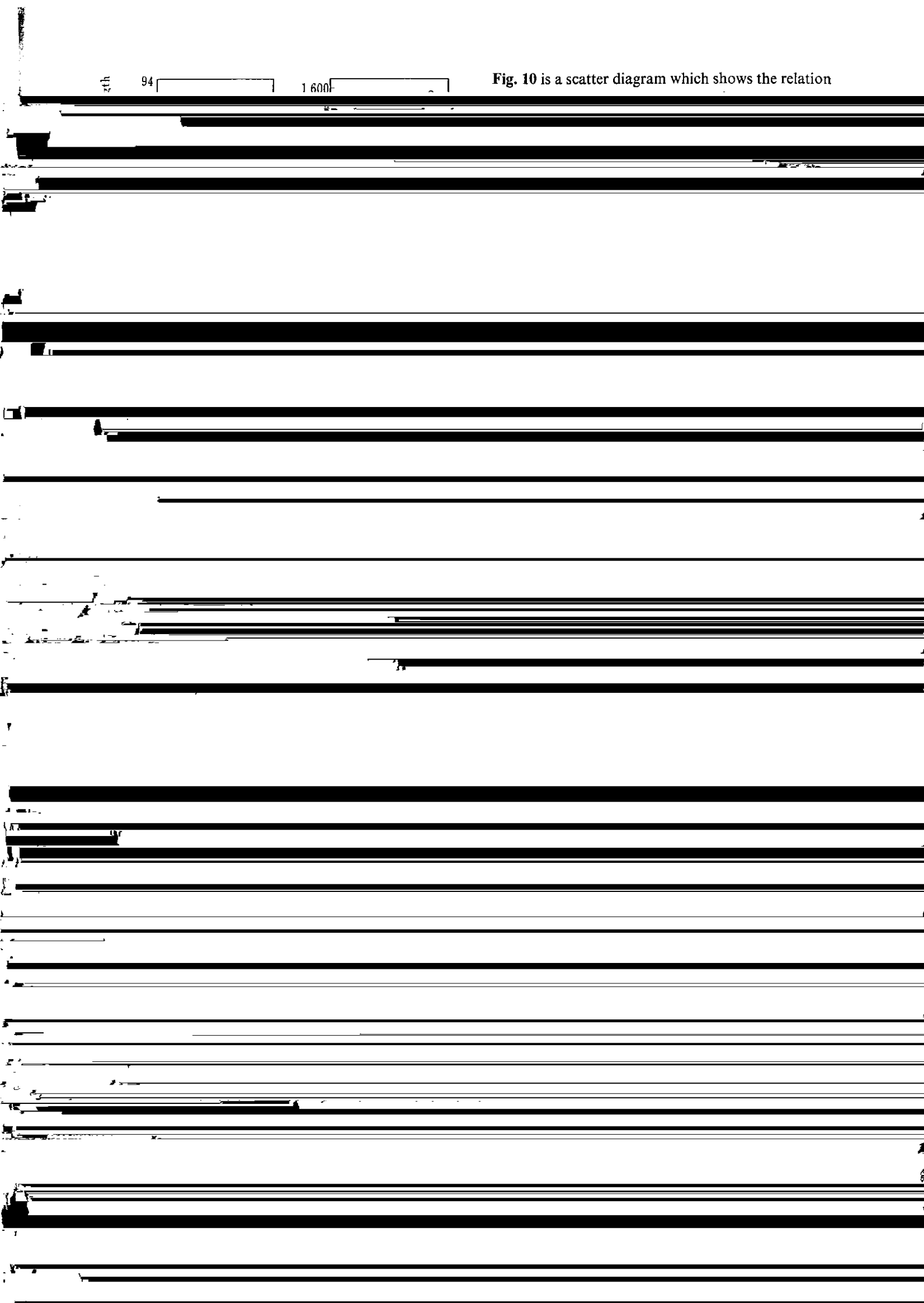


Fig. 10 is a scatter diagram which shows the relation

A heat pattern measuring apparatus has been developed at No. 4 sintering machine of Mizushima

FeO content in sinter, the results of actual sintering operation have proved a possibility of evaluating the generated amount of magnetite by using tem-