coffins in this enquiry, in which the proportions

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SECTION V.

Experiments on the fusible and infusible Proportions of Simple Earths.

AS the fulibility of simple earths when mixed together in certain proportions, while those earths fingly taken are infusible, forms one of the most surprising phænomena in natural philosophy, and one of the most important grounds of specific distinction among earths and stones in mineralogy, I have taken the pains of ascertaining, with more accuracy than has already been practifed, the proportions and degrees of heat at which it takes place (many of which had never before been tried), and also the fusibility of mixtures in which an earth is introduced that never before had been essayed. These experiments are also productive of two capital advantages: 1. They lead to the knowledge of the composition of some minerals, of whose analysis we are as yet ignorant; and, 2dly, they ferve as a test of the analysis already made; for it is plain, that analyses that assign a fusible proportion of ingredients to an infusible stone or earth, or an infusible proportion to one that is fusible, must be erroneous.

To promote these purposes as far as possible, it is necessary to introduce and set forth not only my own experiments, but all those of my predecessors