
A P P E N D I X.

PEARL ASH FURNACE.

IT is not easy to give an accurate description of a Furnace, unless by reference to a plate where it is delineated. A general idea, however, of the Furnaces employed in the business treated of, may not be altogether useless.

A Furnace, whether for scorching or pearling, should be exactly of the same construction: It is properly called a *reverberatory Furnace*, and differs very little from the *reverberator Furnace* "said to be the invention of an English physician of the name of Wright: the use of which was first introduced in England for smelting ores, about the end of the last century."*

To describe the pearling Furnace in a more familiar manner:—The form of the body of it may be said to be very much like a baker's oven, open on one side. The greatest extent of the hearth is in length six feet, in width four. The fire place and ash hole are on the side of the opening. The fire place is separated from the body of the Furnace by a partition wall, raised about two or three inches from the hearth, running along the whole length of the side. This wall leaves an opening of about four or five inches above it, for the passage of the flame to the body of the Furnace. The grates to support the fuel

* Macquire.

separate