

trap contains distinct *pitch-coal*, *columnar coal*, and conchoidal *glance-coal*. The alluvial formation contains almost exclusively *earth-coal* and *bituminous wood*.

Werner mentions the following as formations that do not belong to any of the preceding :

1. The small and low beds of coal that occur in sandstone at Wenigkrawitz in Silesia. It is conjectured to occur in the third sandstone formation.

2. The single beds of coal that occur in floetz-limestone, and which are in general of no very great importance. These have been observed in different places, as on the shore of the Lake of Zurich, also in Franconia, and Thuringia.

3. The bituminous marl-slate, from its containing sometimes portions of coal, may be considered as a subordinate formation.

We shall now describe the independent coal formation, and shall consider the others when we come to treat of the floetz-trap and alluvial rocks.

Independent Coal Formation, or Proper Coal Formation.

Eigentliche Steinkohlen Formation.—*Werner*.

1. This formation, besides coal, contains three rocks which are nearly peculiar to it: these are, a conglomerate, and more lately about two miles from West Craigs, on the great road from Edinburgh to Glasgow. At this latter place there is a bed of flaty glance-coal from ten inches to two feet thick, contained between beds of slate-clay, and covered by sandstone.