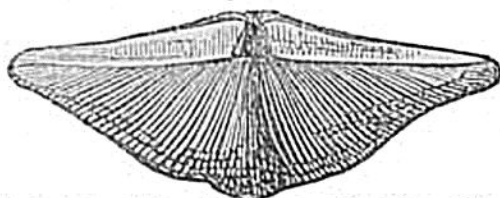


ica.* I shall proceed first to treat of the main divisions which have been established in Europe.

Upper Devonian Rocks.

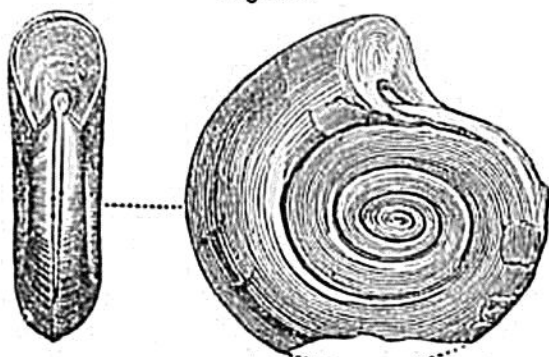
The slates and sandstones of Barnstaple (No. 1, *a*, *b* of the preceding section) are represented in Cornwall by the limestones and slates of Petherwyn, which rise in like manner from under the Culm Measures, constituting the Petherwyn group of Prof. Sedgwick. These beds contain the very common *Spirifer disjunctus*, Sow. (*S. Verneuilii*, Murch.), (see fig. 551), a species distributed over the whole of Europe, and found even in Asia Minor and China. Among many other fossils the *Clymenia linearis* (fig. 552) and the minute crustacean *Cypridina serrato-striata* (fig. 553) are so characteristic of these upper beds in Belgium, the Rhenish Provinces, the Hartz, Saxony,

Fig. 551.



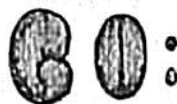
Spirifer disjunctus, Sow. Syn. *Sp. Verneuilii*, Murch.
Upper Devonian, Boulogne.

Fig. 552.



Clymenia linearis, Münster.
Petherwyn, Cornwall; Elbersreuth, Bavaria.

Fig. 553.



Cypridina serrato-striata, Sandberger.
Weilburg, &c.; Nassau; Saxony; Belgium.

and Silesia, that strata of this division in Germany are distinguished by the names of "Clymenien-Kalk," and "Cypridinen-schiefer."†

With these are many *Goniatites* (*G. subsulcatus*, Münster, and other species) both in England and on the continent. In Germany they are usually confined to distinct beds, as at Oberscheld, also at Couvin in Belgium, &c. Trilobites are not unfrequent in Cornwall and North Devon; they are chiefly restricted to species of *Phacops* (for genus, see fig. 585); but in the upper Devonian limestones of the Fichtelgebirge, as at Elbersreuth in Bavaria, there are numerous genera and species which never rise higher in the series or appear in any portion of the carboniferous limestone.

Middle Devonian

The unfossiliferous series (No. 2, p. 420) of North Devon, and the calcareous beds of Ilfracombe (3), correspond to the Dartmouth and Plymouth

* See Dr. Fridolin Sandberger on the Devonian rocks of Nassau (Geol. Verh. Nassau); Fried. A. Roemer, on the Hartz Devonian Rocks, in Dunker and Von Meyer's Palæontographica, 3d vol. pt. 1.

† See Murchison's Siluria, chapters x. xiv. and xv.