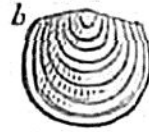


*Shells of the lowest known Fossiliferous Beds in Russia.*

Fig. 605.



*Siphonotreta unguiculata*, Eichwald.  
From the lowest Silurian Sandstone, "Obolus  
grits," of Petersburg.  
a. Outside of perforated valve.  
b. Interior of same, showing the termination of  
the foramen within.



*Obolus Apollinis*, Eichwald.  
From the same locality.  
a. Interior of the larger or ventral valve.  
b. Exterior of the upper (dorsal) valve.  
(Davidson.)

Among the green grains of the sandy strata above mentioned, Professor Ehrenberg has recently (1854) announced his discovery of remains of foraminifera. These are casts of the cells; and amongst five or six forms, three are considered by him as referable to existing genera (e. g., *Textularia*, *Rotalia*, and *Guttulina*).

## SILURIAN STRATA OF THE UNITED STATES.

The position of some of these strata, where they are bent and highly inclined in the Appalachian chain, or where they are nearly horizontal to the west of that chain, is shown in the section, fig. 505, p. 388. But these formations can be studied still more advantageously north of the same line of section, in the States of New York, Ohio, and other regions north and south of the great Canadian lakes. Here they are found, as in Russia, nearly in horizontal position, and are more rich in well-preserved fossils than in almost any spot in Europe. In the State of New York, where the succession of the beds and their fossils have been most carefully worked out by the Government Surveyors, the subdivisions given in the first column of the annexed list have been adopted.

*Subdivisions of the Silurian Strata of New York. (Strata below the Oriskany Sandstone, see Table, p. 426.)*

New York Names.	British Equivalents.
1. Upper Pentamerus Limestone	} Upper Silurian (or Ludlow and Wenlock formations).
2. Encrinal Limestone	
3. Delthyris Shaly Limestone	
4. Pentamerus Limestone	
5. Tentaculite Limestone	
6. Onondaga Salt-group	
7. Niagara Group	
8. Clinton Group	} Middle Silurian (or Carados Sandstone).
9. Medina Sandstone	
10. Oneida Conglomerate	
11. Gray Sandstone	
12. Hudson River Group	
13. Utica Slate	
14. Trenton Limestone	} Lower Silurian (or Llandeilo beds).
15. Black-River Limestone	
16. Bird's-Eye Limestone	
17. Chazy Limestone.	
18. Calciferous Sandstone	
19. Potsdam Sandstone	} Cambrian? (or Lingula flags and beds, older than "the Llandeilo.")

In the second column of the same table I have added the supposed British equivalents. All paleontologists, European and American, such