

The connection of some schists with original masses of diorite, gabbro, and diabase has been pointed out by Lehmann and subsequently by many other observers.²²¹

5. **GARNET-ROCKS.**—**Éclogite**, one of the most beautiful members of the crystalline-schist series, is a granular aggregate of grass-green omphacite (pyroxene) and red garnet, through which are frequently dispersed bluish kyanite and white mica. It occurs in bands in the Archæan gneiss and mica-schist. To those varieties where the kyanite becomes predominant, the name of **Kyanite-rock** has been given. **Garnet-rock** is a crystalline-granular rock composed mainly of garnet, with hornblende and magnetite; by the diminution of the garnet it passes into an amphibolite. **Kinzigite**—a crystalline schistose rock, composed of plagioclase, garnet, and black mica, found in the Black Forest (Kinsig) and the Odenwald.

6. **EPIDOTE-ROCKS.**—**Epidosite** (Pistacite-rock)—an aggregate of bright green epidote with some quartz, occurs with chlorite-schist (Canada), with granite and serpentine (Elba), and with syenite. **Epidote-schist**, a schistose greenish rock, with silvery lustre on the foliation surfaces, composed of epidote, sericite, magnetite, quartz, calcite, plagioclase, and specular iron.²²²

7. **CHLORITE-ROCKS.**—**Chlorite-schist**—a scaly schistose aggregate of greenish chlorite, usually with quartz and often with felspar, talc, mica, or magnetite, the last-named mineral frequently appearing in beautifully perfect disseminated octohedra. Occurs with gneiss and other schists in evenly bedded masses.

8. **TALC-ROCKS.**—**Talc-schist**—a schistose aggregate of scaly talc, often with quartz, felspar, and other minerals; having an unctuous feel, and white or greenish color. Occurs somewhat rarely in beds associated with mica-schist and clay-slate, and frequently contains magnetite, chlorite, mica, kyanite, and other minerals, including carbonates. A massive variety, composed of a finely felted aggregate of

²²¹ "Untersuchungen über die Entstehung der Altkrystall Schief." See also Gümbel, "Die Paläolitischen Eruptivgesteine des Fichtelgebirges," Munich, 1874, p. 9; Teall, Quart. Journ. Geol. Soc. xli. (1883), p. 133; "British Petrography," p. 198. Hatch, Mem. Geol. Survey, Explanation of Sheets, 138, 139, Ireland, p. 49. Hyland, Mem. Geol. Survey, Explanations of Northwest Donegal, and of Southwest Donegal, Petrographical appendices, also postea, Book IV. pt. viii. G. H. Williams, Bull. U. S. Geol. Surv. No. 62, 1890.

²²² See Wichmann on Rocks of Timor, "Beiträge zur Geologie Ost-Asiens und Australiens," II. part 2, p. 97, Leyden, 1884.