

*Hab.* E. MEXICO: on the volcano Orizaba 12,000 feet above the sea\* (*Sallé*<sup>1 2</sup>); Mexico<sup>3 4</sup>.

## 12. *Helicina funcki*.

*Helicina funcki*, Pfr. in P. Z. S. 1848, p. 121<sup>1</sup>; Martini & Chemnitz, Syst. Conch.-Cab. ed. 2, *Helicina*, no. 37, p. 33, t. 9. figg. 1, 2<sup>2</sup>; Monogr. Pneum. Vivent. i. p. 361<sup>3</sup>; Sow. Thes. Conch. iii. t. 273. fig. 27<sup>4</sup>; Reeve, Conch. Icon. xix., *Helicina*, t. 17. fig. 152<sup>5</sup>.

*Helicina funki* (sic), Angas, P. Z. S. 1879, p. 484, t. 40. fig. 7 (living animal)<sup>6</sup>.

*Helicina tuncki* (sic), Gray, Cat. Phaneropn. p. 261<sup>7</sup>; H. & A. Adams, Gen. Conch. ii. p. 302<sup>8</sup>.

*Hab.* E. COSTA RICA: Talamanca, all the coast region and to the lower hills (*Gabb*<sup>6</sup>); Costa Rica (*Carmiol*); Cache (*Rogers*).

COLOMBIA<sup>4 5 7</sup>, Santiago (*Funck*<sup>2 3</sup>, in coll. *Cuming*<sup>1</sup>).

Variable in size. Gabb's specimens are much larger than the type: according to the figure they are 18 millim. in diam., Pfeiffer's original one being 13½ millim.; Rogers's examples are 13-14, Carmiol's scarcely 13 millim. Gabb's specimens vary in colour from straw-yellow to orange; those collected by Rogers have the upper half of the last whorl reddish, with fine reticulated white lines, and the lower half yellow, the preceding whorls being either reddish or yellow. In general size and aspect this species resembles *H. zephyrina*; but differs from it in its peristome being narrow and more straight above, and rapidly increasing in width towards the periphery of the whole shell.

## 13. *Helicina chrysocheila*.

*Helicina chrysocheila*, Binney, Terr. air-breath. Moll. of the United States, ii. p. 354, t. 74. fig. 4 (1851)<sup>1</sup>; Tryon, in Am. Journ. Conch. iv. p. 13, t. 18. fig. 24 (1869)<sup>2</sup>; Binney, Land and Freshwater Shells of N. Am. pt. 3 (Smithson. Miscell. Coll. vii. no. 144), p. 110 (with woodcut) (1865)<sup>3</sup>; Terr. air-breath. Moll. of N. Am. v. in Bull. Mus. Comp. Zool. Harv. Coll. iv. t. 74. fig. 4 (as above) (1878); Pfr. Monogr. Pneum. Vivent. ii. p. 197<sup>4</sup>; Reeve, Conch. Icon. xix., *Helicina*, t. 33. fig. 294<sup>5</sup>.

*Hab.* S.E. UNITED STATES: Texas<sup>2 3 5</sup>.

N.E. MEXICO: Tamaulipas (*Couch*); Tampico<sup>3</sup>; Mexico<sup>2 5</sup>.

Var. n. *shuttleworthi*. (*H. chrysocheila*, Tab. I. fig. 13.)

*Helicina chrysocheila*, Shutt. in Bern. Mittheil. 1852, p. 303 (Diagn. no. 3. p. 43)<sup>6</sup>; Pfr. Monogr. Pneum. Vivent. ii. p. 203<sup>7</sup>.

*Hab.* E. MEXICO, Cordova (*Jacot-Guillarmod*<sup>6 7</sup>).

Pfeiffer regards *H. chrysocheila*, Binney, as without doubt distinct from *H. chrysocheila*, Shutt.; the latter was published a year later, and the coincidence of the names may be fortuitous. But on comparing Binney's descriptions and figures with Shuttle-

\* The height of this mountain exceeds 16,000 feet.