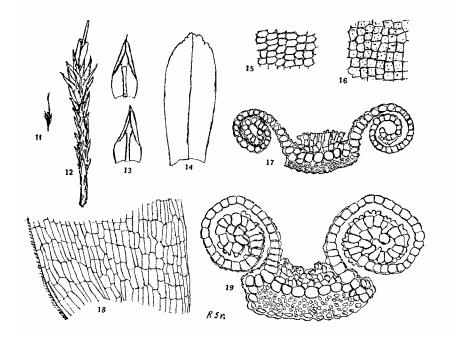
## Pseudocrossidium apiculatum sp. nov.

Dioicous, the outer perigonal leaves like those of the upper stem, the inner much shorter, broadly ovate, with narrow costa, enclosing numerous antheridia, 0.4 mm. long, and abundant, slightly club-shaped paraphyses: plants in compact, greenish brown mats with mostly simple stems 1 cm. high, with large, very distinct central stand and outer walls of 1 or 2 rows of rather small cells with scarcely thickened cell-walls; stem-leaves ovate lanceolate, acute, the upper about 1.5 mm. long appressed and mostly twisted about the stem when dry, the margins in the upper half often twice revolute; costa excurrent, apiculate, in the widest part 140-160 µ across, in cross-section showing 6 to 8 guide cells, below them a large stereid band and on the upper side 3 or 4 layers of lax, thin-walled cells forming a compact densely papillose surface or broken up into distinct filaments 2 or 3 cells high with the terminal cell papillose (sometimes also a thin band of stereid cells occurs just above the guide-cells); cells of upper leaf mostly not elongate or transversey elongate, often 12 x 12 µ papillose on both sides, those of the revolute part often much inflated or with greatly enlarged papillae on the upper face; lower cells of leaf paler, mostly rectangular, 12-16 µ wide and 20-40 µ long; perichaetial laves pale, convolute, the inner 2.5 mm. long or more, projecting well above the stem-leaves, somewhat obovate to oblong, the apex obtusely rounded and more or less erose, the costa narrow and vanishing a little below the apex; fruit unknown.

PERU: above Arequipa, August, 18977.

BULL. TORR. BOT. CL. 42:397. 23 f. 1915



*Pseudocrossidium apiculatum* 11. Plant about natural size. 12 Plant, X 6. 13. Stem-leaves, X 13. 14. Perichaetial leaf, X 13. 15. Cells in upper leaf about midway between margin and costa, X 183. 16. Cells just above the rectangular basal cells, X 183. 17. Cross-section of leaf about one third down, X 124. 18. Basal cells of leaf from margin to costa, X 124. 19. Cross-section of a second leaf, X 183.