on, Bot. Calificillous; leaves blong or linear but 9-flowered; .-2 long white reapsule 1 × 5 exas; also met Bailey; Mass., Pennsylvania, south Europele, and said to

the main with escence differs e always more ately.

Teranium, and rity, the two or to serve as an distinctly provery little from rium has been

nus than in the ary being proabove. These mical (bast) fier extent than the awn curves carpels remain ually enlarging upported at the is similer to that inner ones, for thrown elastilose helix, from 'he awn is also , the long loose rackute, favor-

orm again when pisture and dryness. Supposing the basal point of the earpel to be slightly eaught in the soil, which readily happens either as the fruit falls or when its movements begin, its withdrawal is rendered difficult by the stiff ascending hairs with which the ovary is clothed; so that while the crowding of the awn against bits of stubble, pebbles, or whatever small objects it may chance to have fallen among, tends to press the fruit farther into the earth with every movement, whether the result of moistening or drying of the awn, the probability of its withdrawal, when once eaught, is small. In some experiments performed in my laboratory several years since, by Mr. E. H. Parker, it was observed that after the fruit had been buried in damp soil for a few days, the awn softened at its base, so that a pull, which otherwise might have withdrawn the fruit, merely broke away the awn,



Fruit of Erodium glancophyllum, X 2.

thus removing the only source of danger to the self-planted seed, a provision which was also noticed in *Stipa*, and has been recorded for these genera by Roux and Darwin respectively.

The contrivances in the fruit, therefore, are of a double nature, referring not only to its removal from the parent plant, but to its insertion in the soil when a suitable point has been reached. It is interesting to note that similar provisions are met with in widely separated genera (Anemone § Pulsatilla, and species of Stipa and Aristida), not at all related to Erodium; as well as in Pelargonium, a genus which stands very near the latter, the fruit of which is less elastic, and consequently more dependent upon the wind for dissemination, although it is ultimately planted in the same manner.