The Phænocalpida are probably an artificial family, composed of three or four (or perhaps more) different groups, which have a quite different origin. The Litharachnida (genera 511-515) and the Haliphormida (genera 516-518) are probably derived from the Sethophormida by loss of the cephalis, the retrograde metamorphosis of which The Halicalyptrida (genera 519-521) are may be observed in all its different stages. perhaps independent of the other Phænocalpida, and may be Archicorida which have produced a corona of teeth around the mouth, without relation to lost radial ribs. Phænoscenida (Phænoscelpis, Phænoscenium) may be derived from the Euscenida (genera 504-507) by interpolation of interradial feet between the three primary ones, or directly from the Plectoidea. The Calpophænida, on the other hand (Calpophæna, Archiphana), may have arisen from the Zygospyrida (Petalospyris, Gorgospyris) by loss of the sagittal ring and the longitudinal constriction. The phylogeny of the Phænocalpida is therefore a very complicated problem, as yet unsolved.

Synopsis of the Genera of Phænocalpida.

Systematic by the desicite of I manoculpian.					
			Shell simple, with simple network,	511.	Bathropyramis.
I. Subfamily Archiphormida. Basal mouth of the shell a simple wide opening.	Radial ribs enclosed in the wall of the shell, usually pro- longed into free terminal feet.	Shell slender, pyramidal (withouthorn). Shell flatly campanulate or discoidal (without horn).	Shell simple, with double network,	512.	${\it Cinclopy ramis.}$
			Shell double, with an outer mantle,	513.	Peripyramis.
			Radial ribs simple,	514.	Litharachnium.
			Radial ribs branched, .	515.	${\it Cladarachnium}.$
		Shell ovate, urceolate or campanulate.	Mouth smooth, constricted (no horn),	516.	Cyrtophormis.
			Mouth with With horn,	517.	Haliphormis,
			feet. No horn, .	518.	Archiphormis.
	No radial ribs in the wall of the shell. Mouth surround- ed by a corona of free ter- minal feet.		Shell simple \ With horn,.	519.	Halicalyptra.
			mantle. (No horn, .	520.	${\it Carpocanistrum}.$
			Shell double, with an external mantle (no horn),	521.	Arachnocalpis.
II. Subfamily Archiphænida. Basal mouth closed by a lattice-plate.	In the axis of the shell-cavity a free columella.		Columella simple,	522.	Phænocalpis.
			Columella branched, .	523,	Phænoscenium.
	Shell-cavity simple, without axial columella.		Apex with a horn, .	524 .	Calpophæna.
			No apical horn,	525.	Archiphæna.