





Platell figura 15.
Synonyme: Pargyotating Juctier (Bhareduaj and Saluyba) Patme, 1966.
Diggnosia: $\therefore$ I Striate pollen grain without eaces. The proxisal cap bears 9 to 22 longttuaines ribe in polar vien: These reet and coalesce in an orlerly fizhion forming a concentric pattern. The tiore lateral proximal ribs curve around the teroinal parte and unite on the distal suxfaem. Each terminal aree 10 the reby warked by frod 2 to seven distal transverse ribe, the immer rib being markedly vidar than the others.


Deseription: Shape: Haploxylonoid withorit any evidence of aacei, longitualineliy oval to roumly quedrillaterate
Exine: Thin sund struoturelegs intexine with laevigate ribbed exomexine, Tibg are 1-3 di opart and 1-4 Mi wide, conlesciag to form ribhorm lire loops from proximal surface onto the aistal surface.











Geniry ALI epozites Dongerity, 1941, rand.
Kilsan, $1958^{\circ}$
Type fpecter (by original wonotypy): Alisporites oplt Dougherty.
DLagnosiat Shape D Deaceate haploxylonota to olightiy Aiploxyionoia.
Central bodg: Chicoular to oval; fio tetrad eutures peesent proximal oap Ennoly and uniformiy etruotrared.
Sacot: Targe crescentice to heafispherich in sbape, little distal Jnolsutatione,
Diatel zoyes Thin, broad, gbout ona quarter or tuore 1 -a (central body) in widh, and-Jackng s mell. dellneated sulcua.
Discussion: Balme (1966) discusees at Iength the 20 mg and varied hiatary of the genus Alisporites sinces its origerial definition by Dougherty: Sereral emendetions to restrict this gexus have been attenpted. Theee fall trito two groupe besed on
a) Dougherty's broad coincept (House, 1960; de Jeraey, 3962,$1964 ;$ Playtom and Det busin, 1965, quoted by Ba7me, 1966), and
b) The morphology of the type species. D. opl. Dougherty (Potonie and Kreap, 2954, and Kaup, 1963 quot,ed by Beline, 1966). The latter








## Alisporites tenutacipug Balme

Plate 15: 2 igures 6, 7 。 Trolotyge: Alisporytag terudcorems Balme, 1966: Plate 25: Ingures 1-4.
DLegnosis: Wearly haploxylondid; central booy: esceular to allsitiy oval nitis thin proximal exina; seod crescentic watin a blight diatal inclinarions in+rsmeticulate with lumon about 2 m in Alameter. Distal zone ovel, maximum breacth ebout $\frac{1}{2}$ 1-s (central bady) and thin and transluseent; soifetimet faint peripheral intexinal rolae below the seioch roots occury.


Desomptions

## Shape:

Haploxylonota, longitudinally orel to sub-rectrasular.
Gontral body: Jevally indintinet, thin and cercolar to mubcircuilare fin فhepej proximsi sumfee fineIy fnperpunctiste.
Sacci: Sems-olrciviar in showe and equat. to or slightly 1ase thas the centrel body In size; Welieaparated Iateraly with alfght to modecate asotay inoltnationa Infit-rethmiation goarea.











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Sologtiopopites potomiel (Lakhanpal, Selwoha ani Dube) Baxt, 1965
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Plate 15; figores $16-18$;
Holotype: Pityoaporiter potoniel Ialchanpal: Salujhe and Dubep 1960, Plate 2: figure 78.

Synopapme:
Diagnoria:

Veatcaspora maxima Hart, 1960.
Shpiae is haploxylonotd, rounded to transversely ovaz. Central body
Is usunliy indiatinct but is cixcolex to oval in a t~a direction adocl semi-circular di,atally finclined api bearing a coarse infra-reticulum. Lateral bladdera are namow but indistinct, due to the thickness of the sacoi exine. Distal saicus parallel-sided and very narron and does not alwaya extend to the lifterel margiz.


Deaeription: Shape: Haploxylonoid, rarkadly circular to sub-circular.
Central budy: Jeually undiscernible but alrcular to sub-eircular or alightly t-a oval. Proximial axifeace graded almost imperceptably into the sacci.





















$$
\begin{aligned}
& \text { (O) (0) (O) (0) } \\
& \text { (1) (0) (®) } \\
& \text { (0) (0) (10) (8) } \\
& \Leftrightarrow \infty< \\
& \text { (0) (2) (1) © (b) }
\end{aligned}
$$







## Divamheocug venkatechela end Zair 1966 (figure o) pogsogse en equetortal proxald sacour atfachout, but atetaly the saccus is attached sub-equatomial, In Buch a mannex that tio distal gone. is bilateral ard with or withowt a distinet fuleus. <br> Kifimbat tes Bose and Kor, 1967 (IIgunce d) Is siovlar to Divardsaocos in that prozingl saccua ottgohment is equatortal and fintal attachnent form a tranevorte sulcus. This, howevers $i e$ not bibeteral. but rounded to almost rectangulens. The enocus is charactariatically radieliy folded and very frillad. Katangaltea Boae and Kar, 1967 (tigure e) has e Yery dease central boay bearing luthle infra-struature or sculpture, and ding Eicocus attachment:

The following genera differ from Plucatipalleajte日 in Leing bilateral In organisation:-

Yestiferaporitiss (Balue and Hemely) Hanct, 1965 (figure j), Caheniesaccites Hose. and Kar, 1966 (tiguite n), and Fatonicersprities Fharedwa, 1962 (IIguxe p). Whilst the following genera lack dual anccus attachinent (it is elther próxinal or (tastail):-





Author Falcon R M S (Rosemary Margaret Sarah)
Name of thesis Preliminary Study Of The Karroo Palynology In The Mid-zambezi Basin, Rhodesia. 1972

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