

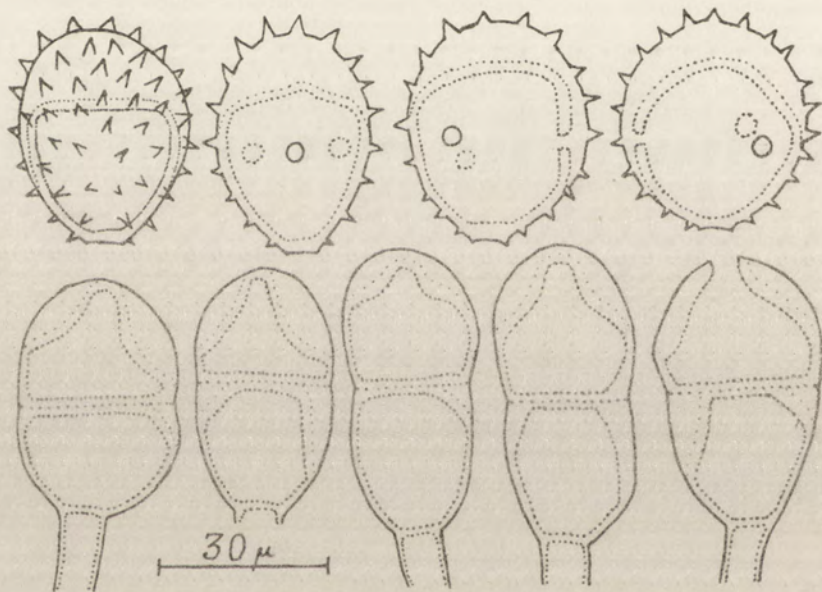
A NEW RUST ON FINSCHIA CHLOROXYANTHA IN NEW GUINEA

BY GEORGE B. CUMMINS.*

Puccinia finschiae Cummins sp. nov. is described on *Finschia chloroxyantha* Diels † from New Guinea.

Puccinia finschiae Cummins sp. nov. Fig.

Urediiis hypophyllis, laxe aggregatis vel sparsis, usque ad 1 mm. diam., cinnamomeo-brunneis, pulverulentis, paraphysibus nullis; urediosporis (23-) 27-33(-35) x (30-) 33-40(-45) micron, globoideis vel late obovoideis, membrana (1.5-) 2(-3) micron crassa, aureo- vel cinnamomeo-brunnea, ad apicem (5-) 7-12(-15) micron crassa et pallidiore, valde aculeata; poris germinationis 2(?) vel 3, equatorialibus. Teliis urediis conformibus sed compactis; teliosporis (24-) 26-30(-33) x (40-) 44-55(-58) micron, plerumque oblongo-ellipsoideis, membrana 1-1.5(-2) micron crassa, ad apicem 5-8 micron crassa, pallide aurea, levi; pedicello hyalino, fragili, usque 50 micron longo; statim a maturitate germinantibus.



Uredospores (above) and teliospores (below) of *Puccinia finschiae*.

The uredospores are golden brown with the outer wall paler and the teliospores are golden brown and germinate without dormancy.

Type: On *Finschia chloroxyantha* Diels, Korn Farm, Mount Hagen, New Guinea, 19 Nov. 1959, Smythe, comm. D. Shaw TPNG No. 2586b (TPNG, IMI, PUR).

The wall of the uredospores is mostly distinctly bilaminate, with the inner layer thin and the outer much thickened over the germ pores and apically. Basally, the outer layer is absent or much reduced.

This is the first species of *Puccinia* and one of the few rust fungi reported as parasitizing the Proteaceae.

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† Identified by Mr. J. Womersley, Division of Botany, Department of Forests, Lae, Territory of Papua and New Guinea.

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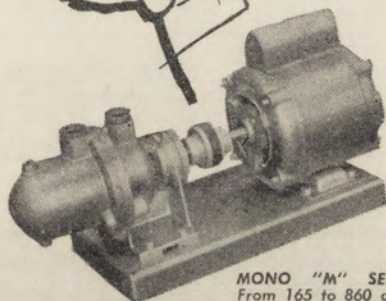
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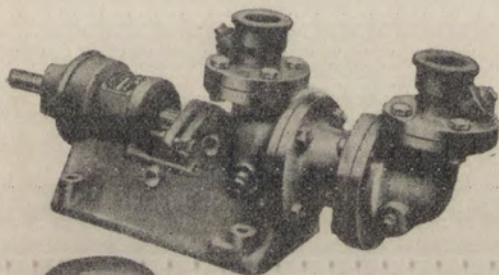
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