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MITTEILUNGEN DER STAATLICHEN BOHRVERWALTUNG
IN DEN NIEDERLANDEN

MÉMOIRES DU SERVICE DES EXPLORATIONS MINIÈRES
DE L'ÉTAT DES PAYS-BAS

MEMOIRS OF THE GOVERNMENT INSTITUTE FOR THE GEOLOGICAL
EXPLORATION OF THE NETHERLANDS

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FLORA
OF THE
CARBONIFEROUS ^{OF} THE NETHERLANDS
AND
ADJACENT REGIONS

BY
Dr. W. J. JONGMANS

VOL. I

A MONOGRAPH OF THE CALAMITES
OF WESTERN EUROPE

BY
Dr. R. KIDSTON, F. R. S. L. AND E., F. G. S. AND Dr. W. J. JONGMANS

ATLAS
PLATE 1—158

UITGEGEVEN OP LAST VAN HET MINISTERIE VAN LANDBOUW, NIJVERHEID EN HANDEL

's-GRAVENHAGE 1915



GEDRUKT DOOR
T KASTEEL VAN
AEMSTEL
AMSTERDAM

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PROVISIONAL EXPLANATION OF FIGURES ¹⁾.
(A MORE DETAILED ONE WILL BE ISSUED IN THE VOLUME OF TEXT).

*Pl. 1, fig. 1; Pl. 2, fig. 1, 2	C. undulatus Sternb.
Pl. 3, 4, 5	C. undulatus Sternb.
*Pl. 6, fig. 1, 2.	C. undulatus Sternb.
*Pl. 6, fig. 3, 4, 5.	C. undulatus Sternb.
*Pl. 6, fig. 6; Pl. 7, fig. 1	C. undulatus Sternb.
Pl. 7, fig. 2; Pl. 8	C. undulatus Sternb.
*Pl. 9, fig. 1, 2, 3; Pl. 10, fig. 1, 2	C. undulatus Sternb.
*Pl. 9, fig. 4; Pl. 32, fig. 3, 4.	C. undulatus Sternb.
Pl. 9, fig. 5	C. undulatus Sternb.
*Pl. 10, fig. 1, 2; Pl. 9, fig. 1, 2, 3	C. undulatus Sternb.
Pl. 10, fig. 3	C. undulatus Sternb.
*Pl. 10, fig. 4, 5	C. undulatus Sternb.
Pl. 11, fig. 1	C. undulatus Sternb.
*Pl. 11, fig. 2; Pl. 12, fig. 1	C. undulatus Sternb.
*Pl. 12, fig. 1; Pl. 11, fig. 2	C. undulatus Sternb.
Pl. 12, fig. 2; Pl. 13, 14, 15, 16.	C. undulatus Sternb.
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Pl. 19, fig. 3; Pl. 20; Pl. 21, fig. 1.	C. undulatus Sternb.
*Pl. 21, fig. 2; Pl. 22, fig. 1, 2	C. undulatus Sternb.
Pl. 23	C. undulatus Sternb.
*Pl. 24, fig. 1, 2	C. undulatus Sternb.
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*Pl. 25, fig. 1; Pl. 26, fig. 1	C. undulatus Sternb.
*Pl. 25, fig. 2, 3, 4; Pl. 26, fig. 2	C. undulatus Sternb.
*Pl. 26, fig. 1; Pl. 25, fig. 1	C. undulatus Sternb.
*Pl. 26, fig. 2; Pl. 25, fig. 2, 3, 4	C. undulatus Sternb.
Pl. 26, fig. 3, 4; Pl. 27, fig. 1	C. undulatus Sternb.
*Pl. 27, fig. 2, 3	C. undulatus Sternb.
Pl. 27, fig. 4; Pl. 28, fig. 1, 2	C. undulatus Sternb.
*Pl. 28, fig. 3; Pl. 29, fig. 1	C. undulatus Sternb.
Pl. 29, fig. 2	C. undulatus Sternb.
Pl. 29, fig. 3	C. species (cf. C. wedekindi Weiss).
*Pl. 30, fig. 1, 2	C. undulatus Sternb.
Pl. 30, fig. 3, 4, 5	C. undulatus Sternb.

¹⁾ Those marked with an asterisk, belong to one specimen.

*Pl. 31, fig. 1, 2	C. undulatus Sternb.
Pl. 31, fig. 3	C. undulatus Sternb.
Pl. 31, fig. 4	C. species.
Pl. 31, fig. 5; Pl. 32, fig. 1, 2	C. undulatus Sternb.
*Pl. 32, fig. 3, 4; Pl. 9, fig. 4.	C. undulatus Sternb.
*Pl. 33, fig. 1, 2	C. undulatus Sternb.
Pl. 33, fig. 3, 4	C. undulatus Sternb.
*Pl. 34, fig. 1, 2, 3	C. undulatus Sternb.
*Pl. 34, fig. 4; Pl. 35, fig. 1, 2	C. undulatus Sternb.
*Pl. 35, fig. 3, 4; Pl. 36, fig. 1, 2	C. undulatus Sternb.
*Pl. 36, fig. 3, 4; Pl. 38, fig. 1	C. undulatus Sternb.
*Pl. 36, fig. 5; Pl. 37, fig. 1	C. undulatus Sternb.
*Pl. 38, fig. 1; Pl. 36, fig. 3, 4	C. undulatus Sternb.
Pl. 38, fig. 2	C. species (cf. <i>semicircularis</i> Weiss).
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Pl. 39, fig. 1	C. undulatus Sternb.
*Pl. 39, fig. 2, 3	C. suckowi Bgt.
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*Pl. 40, fig. 1, 2	C. roemeri Goepfert.
Pl. 40, fig. 3	C. wedekindi Weiss.
Pl. 40, fig. 4	C. <i>semicircularis</i> Weiss.
Pl. 41, fig. 1, 2, 3	C. <i>carinatus</i> Sternb. var. <i>rugosus</i> Kidston et Jongmans.
Pl. 41, fig. 4	C. wedekindi Weiss.
*Pl. 42, fig. 1, 2	C. <i>semicircularis</i> Weiss.
*Pl. 42, fig. 3, 4	C. <i>semicircularis</i> Weiss.
Pl. 42, fig. 5	C. <i>semicircularis</i> Weiss.
*Pl. 43, fig. 1; Pl. 44, fig. 4; Pl. 45, fig. 1	C. <i>semicircularis</i> Weiss.
*Pl. 43, fig. 2, 3	C. wedekindi Weiss.
Pl. 43, fig. 4	C. <i>semicircularis</i> Weiss.
Pl. 43, fig. 5	C. wedekindi Weiss.
Pl. 44, fig. 1	C. undulatus Sternb.
Pl. 44, fig. 2, 3	C. <i>semicircularis</i> Weiss.
*Pl. 44, fig. 4; Pl. 43, fig. 1; Pl. 45, fig. 1	C. <i>semicircularis</i> Weiss.
*Pl. 45, fig. 1; Pl. 43, fig. 1; Pl. 44, fig. 4	C. <i>semicircularis</i> Weiss.
Pl. 45, fig. 2, 3; Pl. 46, fig. 1, 2	C. <i>semicircularis</i> Weiss.
*Pl. 46, fig. 3, 4	C. <i>semicircularis</i> Weiss.
Pl. 47, fig. 1	C. roemeri Goepfert.
*Pl. 47, fig. 2, 3	C. <i>semicircularis</i> Weiss.
*Pl. 47, fig. 4, 5	C. <i>semicircularis</i> Weiss.
Pl. 47, fig. 6	C. <i>semicircularis</i> Weiss.
*Pl. 47, fig. 7; Pl. 48, fig. 1; Pl. 50, fig. 5	C. undulatus Sternb.
Pl. 48, fig. 2	C. <i>semicircularis</i> Weiss.
Pl. 48, fig. 3	C. <i>vaginatus</i> Zeiller.
Pl. 48, fig. 4	C. <i>ohlsbachensis</i> Sterzel.
Pl. 49, fig. 1	C. <i>semicircularis</i> Weiss.
Pl. 49, fig. 2	C. <i>ohlsbachensis</i> Sterzel.
*Pl. 49, fig. 3, 4	C. <i>ohlsbachensis</i> Sterzel.
*Pl. 49, fig. 5, 6, 7	C. <i>ohlsbachensis</i> Sterzel.

*Pl. 50, fig. 1, 2	<i>C. dictyoderma</i> Kidston et Jongmans.
*Pl. 50, fig. 3, 4	<i>C. species</i> (Bulbils).
Pl. 50, fig. 5; Pl. 47, fig. 7; Pl. 48, fig. 1	<i>C. undulatus</i> Sternb.
Pl. 50, fig. 6	<i>Equisetites species</i> .
Pl. 50, fig. 7	<i>Equisetites zaeiformis</i> Schloth.
Pl. 51, fig. 1	<i>C. undulatus</i> Sternb.
Pl. 51, fig. 2	<i>C. verticillatus</i> L. et H.
*Pl. 51, fig. 3, 4	<i>C. goepperti</i> Ett.
*Pl. 52, fig. 1, 2	<i>C. species</i> (<i>C. verticillatus</i> Zeiller).
Pl. 52, fig. 3	<i>C. verticillatus</i> L. et H.
*Pl. 52, fig. 4, 5	<i>C. verticillatus</i> L. et H.
Pl. 52, fig. 6; Pl. 52, fig. 7	<i>C. verticillatus</i> L. et H.
Pl. 52, fig. 8	<i>C. vaginatus</i> Zeiller.
*Pl. 53, fig. 1, 2	<i>C. goepperti</i> Ett.
Pl. 53, fig. 3; Pl. 54, fig. 1	<i>C. goepperti</i> Ett.
*Pl. 54, fig. 2, 3; Pl. 55, fig. 1	<i>C. goepperti</i> Ett.
Pl. 55, fig. 2, 3, 4	<i>C. goepperti</i> Ett.
Pl. 55, fig. 5	<i>C. species</i> (<i>C. varians inversus</i> Weiss).
Pl. 56, fig. 1, 2, 3, 4	<i>C. goepperti</i> Ett.
*Pl. 56, fig. 5, 6; Pl. 57, fig. 1, 2, 3	? <i>C. sachsei</i> Stur.
Pl. 57, fig. 4, 5, 6, 7; Pl. 58, fig. 1	<i>C. sachsei</i> Stur.
Pl. 58, fig. 2	<i>C. germanianus</i> Goeppert.
Pl. 58, fig. 3	<i>C. sachsei</i> Stur.
Pl. 58, fig. 4	<i>C. discifer</i> Weiss.
Pl. 59, fig. 1	<i>C. sachsei</i> Stur.
Pl. 59, fig. 2	<i>C. transversalis</i> Kidston et Jongmans.
Pl. 59, fig. 3	<i>C. bohemicus</i> Kidston et Jongmans.
Pl. 59, fig. 4	<i>C. pseudogermanianus</i> Kidston et Jongmans.
Pl. 60, fig. 1	<i>C. sachsei</i> Stur.
Pl. 60, fig. 2, 3	<i>C. sachsei</i> Stur.
*Pl. 61, fig. 1, 2	<i>C. sachsei</i> Stur.
Pl. 61, fig. 3	<i>C. goepperti</i> Ett.
Pl. 61, fig. 4	<i>C. discifer</i> Weiss.
Pl. 62, fig. 1, 2	<i>C. sachsei</i> Stur.
Pl. 62, fig. 3	<i>C. discifer</i> Weiss.
Pl. 62, fig. 4; Pl. 63, fig. 1, 2, 3	<i>C. brittsii</i> White.
*Pl. 63, fig. 4, 5	<i>C. sachsei</i> Stur.
Pl. 63, fig. 6	<i>C. sachsei</i> Stur.
Pl. 64	<i>C. pseudogermanianus</i> Kidston et Jongmans.
Pl. 65, fig. 1	<i>C. goepperti</i> Ett.
Pl. 65, fig. 2	<i>C. discifer</i> Weiss.
*Pl. 65, fig. 3, 4, 5	? <i>C. brittsii</i> White.
Pl. 66, fig. 1, 2, 3	<i>C. goepperti</i> Ett.
Pl. 66, fig. 4	<i>C. sachsei</i> Stur.
Pl. 66, fig. 5	<i>C. carinatus</i> Sternb.
Pl. 66, fig. 6; Pl. 67, fig. 1	<i>C. paleaceus</i> Stur.
Pl. 67, fig. 2, 3	<i>C. discifer</i> Weiss.
Pl. 68, fig. 1	<i>C. schützeiformis typicus</i> Kidston et Jongmans.

Pl. 68, fig. 2	<i>C. schützeiformis intermedius</i> Kidston et Jongmans.
Pl. 68, fig. 3	<i>C. discifer</i> Weiss.
Pl. 68, fig. 4, 5	<i>C. pseudogermarianus</i> Kidston et Jongmans.
Pl. 69, fig. 1	<i>C. deltenrei</i> Kidston et Jongmans.
Pl. 69, fig. 2	<i>C. germarianus</i> Goeppert.
Pl. 69, fig. 3	<i>C. vandergrachtii</i> Kidston et Jongmans.
*Pl. 69, fig. 4; Pl. 70, fig. 1, 5	<i>C. vandergrachtii</i> Kidston et Jongmans.
*Pl. 70, fig. 2, 3, 4	<i>C. vandergrachtii</i> Kidston et Jongmans.
*Pl. 71, fig. 1, 2	<i>C. species</i> (? <i>C. germarianus</i> Goeppert).
Pl. 71, fig. 3	<i>C. schützeiformis typicus</i> Kidston et Jongmans.
Pl. 71, fig. 4, 5; Pl. 72	<i>C. schützeiformis waldenburgensis</i> Kidston.
*Pl. 73, fig. 1, 2	<i>C. schützeiformis intermedius</i> Kidston et Jongmans.
Pl. 73, fig. 3, 4	<i>C. schützeiformis waldenburgensis</i> Kidston.
Pl. 73, fig. 5	<i>C. schützeiformis typicus</i> Kidston et Jongmans.
*Pl. 74, fig. 1; Pl. 75, fig. 1, 2	<i>C. schützeiformis typicus</i> Kidston et Jongmans.
*Pl. 74, fig. 2, 3	<i>C. schützeiformis waldenburgensis</i> Kidston.
Pl. 74, fig. 4	<i>C. species</i> (<i>Phragma</i>).
*Pl. 75, fig. 1, 2; Pl. 74, fig. 1	<i>C. schützeiformis typicus</i> Kidston et Jongmans.
*Pl. 76, fig. 1, 2	<i>C. schützei</i> Stur.
Pl. 76, fig. 3	<i>C. schützeiformis intermedius</i> Kidston et Jongmans.
Pl. 76, fig. 4, 5, 6	<i>C. species</i> (<i>Phragmata</i>).
*Pl. 77, fig. 1, 2	<i>C. schützeiformis waldenburgensis</i> Kidston.
*Pl. 77, fig. 3, 5	<i>C. species</i> (<i>Bulbils</i>).
Pl. 77, fig. 4	<i>C. species</i> (<i>Bulbils</i>).
Pl. 78, fig. 1	<i>C. schützeiformis waldenburgensis</i> Kidston.
Pl. 78, fig. 2	<i>C. discifer</i> Weiss.
Pl. 78, fig. 3	<i>C. schützeiformis waldenburgensis</i> Kidston.
*Pl. 78, fig. 4, 5	<i>C. species</i> (<i>Bulbils</i>).
*Pl. 78, fig. 6, 7	<i>C. species</i> (<i>Bulbils</i>).
Pl. 79, fig. 1, 2	<i>C. schützeiformis typicus</i> Kidston et Jongmans.
*Pl. 79, fig. 3, 4	<i>C. schützeiformis waldenburgensis</i> Kidston.
*Pl. 80, fig. 1, 2	<i>C. schützeiformis typicus</i> Kidston et Jongmans.
Pl. 80, fig. 3, 4	<i>C. species</i> (<i>Phragmata</i>).
*Pl. 80, fig. 5, 6	<i>C. species</i> (<i>Bulbils</i>).
Pl. 81, fig. 1	<i>C. paleaceus</i> Stur.
Pl. 81, fig. 2, 3	<i>C. schützei</i> Stur.
Pl. 81, fig. 4	<i>C. goepperti</i> Ett.
*Pl. 82, fig. 1, 2, 3	<i>C. suckowi</i> Bgt.
Pl. 83, fig. 1, 2, 3; Pl. 84, 85; Pl. 86, fig. 1	<i>C. suckowi</i> Bgt.
*Pl. 86, fig. 2, 3	<i>C. suckowi</i> Bgt.
Pl. 87, fig. 1, 2, 3	<i>C. suckowi</i> Bgt.
Pl. 88, fig. 1	<i>C. steinhaueri</i> Bgt.
Pl. 88, fig. 2, 3; Pl. 89, fig. 1	<i>C. suckowi</i> Bgt.
*Pl. 89, fig. 2, 3	<i>C. suckowi</i> Bgt. (<i>Rhizome</i>).
Pl. 89, fig. 4, 5	<i>C. suckowi</i> Bgt. (<i>Rhizome</i>).
Pl. 90, fig. 1	<i>C. species</i> .
Pl. 90, fig. 2	<i>C. suckowi</i> Bgt.
Pl. 90, fig. 3	<i>C. gigas</i> Bgt.

*Pl. 90, fig. 4, 5	<i>C. gigas</i> Bgt.
Pl. 91, 92, 93	<i>C. gigas</i> Bgt.
Pl. 94, fig. 1, 2	<i>C. cisti</i> Bgt.
*Pl. 95, fig. 1; Pl. 99, fig. 2	<i>C. sachsei</i> Stur.
Pl. 95, fig. 2, 3	<i>C. cisti</i> Bgt.
*Pl. 95, fig. 4, 5	<i>C. cisti</i> Bgt.
Pl. 96, fig. 1, 2	<i>C. cisti</i> Bgt.
Pl. 96, fig. 3	<i>C. gigas</i> Bgt.
Pl. 96, fig. 4, 5	<i>C. species</i> (immature stem).
*Pl. 97, 98	<i>C. jubatus</i> L. et H.
Pl. 99, fig. 1	<i>C. jubatus</i> L. et H.
*Pl. 99, fig. 2; Pl. 95, fig. 1	<i>C. sachsei</i> Stur.
Pl. 99, fig. 3	<i>C. species</i> (tuberous stem).
Pl. 99, fig. 4	<i>C. species</i> (Phragma).
*Pl. 100, fig. 1, 2.	<i>C. jubatus</i> L. et H.
Pl. 100, fig. 3.	<i>Asterophyllites longifolius</i> Sternb.
Pl. 100, fig. 4.	<i>C. species</i> (Phragma).
Pl. 100, fig. 5.	<i>C. species</i> (Pith cast and vascular wedges).
*Pl. 101, fig. 1, 2, 3	<i>C. distachyus</i> Sternb.
*Pl. 102, fig. 1, 2, 3	<i>C. distachyus</i> Sternb.
*Pl. 103, fig. 1, 2.	<i>C. schulzi</i> Stur.
Pl. 104, fig. 1.	<i>C. schulzi</i> Stur.
*Pl. 104, fig. 2, 3.	<i>C. arborescens</i> Sternb.
Pl. 104, fig. 4.	<i>C. species</i> .
Pl. 104, fig. 5; Pl. 105.	<i>C. carinatus</i> Sternb.
*Pl. 106, fig. 1, 3.	<i>C. carinatus</i> Sternb.
Pl. 106, fig. 2, 4.	<i>C. carinatus</i> Sternb.
Pl. 106, fig. 5.	? <i>C. cisti</i> Bgt.
Pl. 107, fig. 1.	<i>C. carinatus</i> Sternb.
*Pl. 107, fig. 2, 3.	<i>C. renaulti</i> Kidston et Jongmans.
*Pl. 108, fig. 1, 2.	<i>C. carinatus</i> Sternb.
Pl. 108, fig. 3, 4, 5	<i>C. paleaceus</i> Stur.
*Pl. 109, fig. 1, 2, 3	<i>C. paleaceus</i> Stur.
Pl. 110, 111, 112; Pl. 113, fig. 1, 2	<i>C. paleaceus</i> Stur.
Pl. 113, fig. 3, 4.	<i>C. cruciatus</i> Sternb.
Pl. 114, fig. 1, 2.	<i>C. multiramis</i> Weiss.
Pl. 114, fig. 3.	<i>C. cruciatus</i> Sternb.
Pl. 114, fig. 4; Pl. 115, fig. 1	<i>C. paleaceus</i> Stur.
Pl. 115, fig. 2.	<i>C. multiramis</i> Weiss.
*Pl. 116, fig. 1; Pl. 117, fig. 1	<i>C. multiramis</i> Weiss.
Pl. 116, fig. 2.	<i>C. paleaceus</i> Stur.
Pl. 116, fig. 3.	<i>C. carinatus</i> Sternb. var. B.
*Pl. 117, fig. 1; Pl. 116, fig. 1	<i>C. multiramis</i> Weiss.
Pl. 117, fig. 2.	<i>C. cf. paleaceus</i> Stur.
Pl. 118, fig. 1.	<i>C. carinatus</i> Sternb. var. A.
Pl. 118, fig. 2.	<i>C. multiramis</i> Weiss.
Pl. 119, fig. 1.	<i>C. britannicus</i> Weiss.
*Pl. 119, fig. 2; Pl. 120, fig. 1	<i>C. multiramis</i> Weiss.

Pl. 120, fig. 2.	<i>C. multiramis</i> Weiss.
Pl. 121, fig. 1.	<i>C. cruciatus</i> Sternb.
*Pl. 121, fig. 2; Pl. 122, fig. 1	<i>C. cucullatus</i> Weiss.
Pl. 122, fig. 2.	<i>C. britannicus</i> Weiss.
*Pl. 122, fig. 3; Pl. 123, fig. 1, 2.	<i>C. multiramis</i> Weiss.
Pl. 122, fig. 4.	<i>C. multiramis</i> Weiss.
*Pl. 123, fig. 1, 2; Pl. 122, fig. 3	<i>C. multiramis</i> Weiss.
*Pl. 123, fig. 3, 4.	<i>C. multiramis</i> Weiss.
*Pl. 123, fig. 5; Pl. 124, fig. 2	<i>C. multiramis</i> Weiss.
Pl. 124, fig. 1.	<i>C. multiramis elongatus</i> Gutbier.
*Pl. 124, fig. 2; Pl. 123, fig. 5	<i>C. multiramis</i> Weiss.
*Pl. 124, fig. 3; Pl. 125, fig. 1	<i>C. multiramis</i> Weiss.
Pl. 125, fig. 2; Pl. 126, 127; Pl. 128, fig. 1	<i>C. multiramis</i> Weiss.
*Pl. 128, fig. 2; Pl. 129, fig. 1	<i>C. brongniarti</i> Sternb.
*Pl. 129, fig. 2, 3.	<i>C. artisi</i> Renault.
Pl. 130, fig. 1, 2.	<i>C. cruciatus</i> Sternb.
Pl. 130, fig. 3.	<i>C. cruciatus elongatus</i> Gutbier.
Pl. 131, fig. 1.	<i>C. cruciatus</i> Sternb.
*Pl. 131, fig. 2, 3.	<i>C. infractus</i> Gutbier.
Pl. 132, fig. 1.	<i>C. infractus</i> Gutbier.
Pl. 132, fig. 2.	<i>C. cf. infractus</i> Gutbier.
*Pl. 132, fig. 3, 4.	<i>C. elongatus</i> Renault.
Pl. 133, fig. 1.	<i>C. cf. infractus</i> Gutbier.
*Pl. 133, fig. 2, 3.	<i>C. multiramis elongatus</i> Gutbier.
Pl. 134, fig. 1.	<i>C. species</i> (<i>Arthropitys parrani</i> G. E.).
*Pl. 135, fig. 1, 2.	<i>C. goepperti</i> Ett.
Pl. 135, fig. 3.	<i>Equisetites cf. vaujoli</i> Zeiller.
Pl. 136, fig. 1.	<i>C. goepperti</i> Ett.
*Pl. 136, fig. 2, 3.	<i>C. suckowi</i> Bgt.
Pl. 137, fig. 1, 2.	<i>C. suckowi</i> Bgt.
Pl. 137, fig. 3.	<i>C. undulatus</i> Sternb.
Pl. 138, fig. 1.	<i>C. suckowi</i> Bgt.
Pl. 138, fig. 2.	<i>C. germanianus</i> Goepfert.
Pl. 138, fig. 3.	<i>Equisetites goepperti</i> Ett.
Pl. 138, fig. 4.	<i>C. roemeri</i> Goepfert.
Pl. 139, fig. 1.	<i>C. typ. cruciatus</i> Sternb.
Pl. 139, fig. 2.	„ <i>Hippurites gigantea</i> ” L. et H.
Pl. 139, fig. 3.	<i>Equisetites species.</i>
Pl. 139, fig. 4, 5.	<i>C. species.</i>
Pl. 140, fig. 1, 2.	„ <i>Asterophyllites grandis</i> ” L. et H.
Pl. 141, fig. 1, 2, 3	<i>C. approximatifomis</i> Stur.
Pl. 141, fig. 4.	<i>C. ramifer</i> Stur.
*Pl. 141, fig. 5; Pl. 142, fig. 1	<i>C. ramifer</i> Stur.
*Pl. 141, fig. 6; Pl. 142, fig. 2	<i>C. cistiiformis</i> Stur.
*Pl. 142, fig. 1; Pl. 141, fig. 5	<i>C. ramifer</i> Stur.
*Pl. 142, fig. 2; Pl. 141, fig. 6	<i>C. cistiiformis</i> Stur.
Pl. 142, fig. 3.	? <i>C. cistiiformis</i> Stur.
Pl. 142, fig. 4.	<i>C. ramifer</i> Stur.

*Pl. 142, fig. 5, 6 (numbered on Plate fig. 2 right corner).	<i>C. haueri</i> Stur.
*Pl. 143, fig. 1, 2; Pl. 144, fig. 1	<i>C. ramifer</i> Stur.
*Pl. 143, fig. 3, 4	<i>C. haueri</i> Stur.
Pl. 143, fig. 5, 6	<i>C. roemeri</i> Goeppert.
Pl. 143, fig. 7	<i>C. cistiiformis</i> Stur.
*Pl. 144, fig. 1; Pl. 143, fig. 1, 2	<i>C. ramifer</i> Stur.
Pl. 144, fig. 2, 3	<i>C. haueri</i> Stur.
*Pl. 144, fig. 4; Pl. 145, fig. 1	<i>C. cistiiformis</i> Stur.
*Pl. 145, fig. 2, 3	<i>C. haueri</i> Stur.
Pl. 145, fig. 4	<i>C. haueri</i> Stur.
Pl. 145, fig. 5	<i>C. species</i> (<i>C. ramifer</i> Zeiller, Héraclée).
Pl. 145, fig. 6	<i>C. cistiiformis</i> Stur.
Pl. 145, fig. 7; Pl. 146, fig. 1, 2	<i>C. haueri</i> Stur.
*Pl. 147, fig. 1, 2	<i>C. cistiiformis</i> Stur.
*Pl. 147, fig. 3, 4	<i>C. cistiiformis</i> Stur.
Pl. 147, fig. 5; Pl. 148, fig. 1	<i>C. taitianus</i> Kidston et Jongmans.
Pl. 148, fig. 2	<i>C. species.</i>
Pl. 149, fig. 1	<i>C. taitianus</i> Kidston et Jongmans.
*Pl. 149, fig. 2, 3, 4	<i>C. taitianus</i> Kidston et Jongmans.
Pl. 149, fig. 5	<i>C. taitianus</i> Kidston et Jongmans.
*Pl. 149, fig. 6; Pl. 150, fig. 1, 2	<i>Asterocalamites radiatus</i> Bgt.
*Pl. 150, fig. 3; Pl. 151, fig. 1	<i>Asterocalamites radiatus</i> Bgt.
Pl. 151, fig. 2, 3	<i>C. species.</i>
*Pl. 152, fig. 1, 2	<i>Asterocalamites radiatus</i> Bgt.
Pl. 152, fig. 3	<i>Asterocalamites radiatus</i> Bgt.
*Pl. 152, fig. 4, 5	<i>Asterocalamites radiatus</i> Bgt.
Pl. 153, fig. 1, 2, 3	<i>Asterocalamites radiatus</i> Bgt.
*Pl. 153, fig. 4, 5	<i>Asterocalamites radiatus</i> Bgt.
Pl. 153, fig. 6	„ <i>Anarthrocanna</i> ” Goeppert.
*Pl. 154, fig. 1, 2, 3	„ <i>Stigmatocanna volkmanniana</i> ” Goeppert.
Pl. 154, fig. 4	<i>Asterocalamites radiatus</i> Bgt.
Pl. 155, fig. 1	<i>C. carinatus</i> Sternb. var. <i>rugosus</i> Kidston et Jongmans.
Pl. 155, fig. 2, 3	<i>C. paleaceus</i> Stur.
Pl. 156, fig. 1, 2	<i>C. jubatus</i> L. et H.
*Pl. 156, fig. 3; Pl. 157, fig. 1, 2	<i>C. jubatus</i> L. et H.
*Pl. 156, fig. 4, 5	<i>C. roemeri</i> Goeppert.
Pl. 156, fig. 6	<i>C. carinatus</i> Sternb.
Pl. 156, fig. 7	<i>C. verticillatus</i> L. et H.
Pl. 156, fig. 8	<i>C. cruciatus</i> Sternb.
*Pl. 157, fig. 1, 2; Pl. 156, fig. 3	<i>C. jubatus</i> L. et H.
Pl. 157, fig. 3	<i>C. jubatus</i> L. et H.
Pl. 157, fig. 4	<i>C. schützei</i> Stur.
Pl. 157, fig. 5	<i>C. undulatus</i> Sternb.
Pl. 158, fig. 1	<i>C. cisti</i> Bgt.
*Pl. 158, fig. 2, 3	<i>Asterophyllites equisetiformis</i> Schl.
Pl. 158, fig. 4	<i>Annularia stellata</i> Schl.
Pl. 158, fig. 5	<i>Palaeostachya gracillima</i> Weiss.

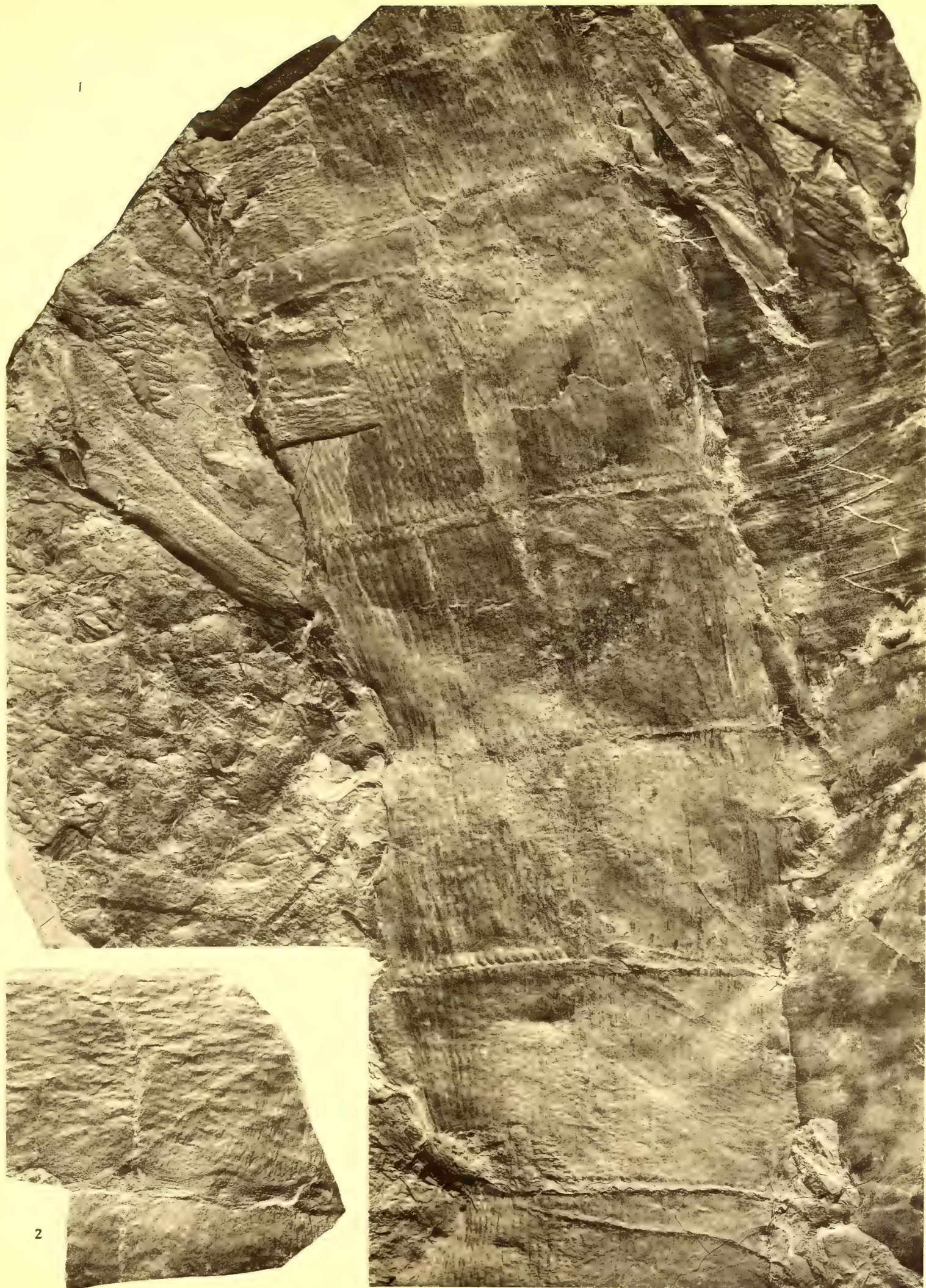
LIST OF THE SPECIES OF CALAMITES INCLUDED IN THIS
MEMOIR, WITH REFERENCES TO THE PLATES
ON WHICH THEY ARE FIGURED.

<i>C. approximatifomis</i> Stur	Pl. 141, fig. 1, 2, 3.
<i>C. arborescens</i> Sternb.	Pl. 104, fig. 2, 3.
<i>C. artisi</i> Renault	Pl. 129, fig. 2, 3.
<i>C. bohemicus</i> K. et J.	Pl. 59, fig. 3.
<i>C. britannicus</i> Weiss	Pl. 119, fig. 1; Pl. 122, fig. 2.
<i>C. brittsii</i> White	Pl. 62, fig. 4; Pl. 63, fig. 1, 2, 3; ? Pl. 65, fig. 3, 4, 5.
<i>C. brongniarti</i> Sternb.	Pl. 128, fig. 2; Pl. 129, fig. 1.
<i>C. carinatus</i> Sternb.	Pl. 66, fig. 5; Pl. 104, fig. 5; Pl. 105; Pl. 106, fig. 1, 2, 3, 4; Pl. 107, fig. 1; Pl. 108, fig. 1, 2; Pl. 156, fig. 6.
<i>C. carinatus</i> Sternb. var. <i>rugosus</i> K. et J.	Pl. 41, fig. 1, 2, 3; Pl. 155, fig. 1.
<i>C. carinatus</i> Sternb. var. A.	Pl. 118, fig. 1.
<i>C. carinatus</i> Sternb. var. B.	Pl. 116, fig. 3.
<i>C. cisti</i> Bgt.	Pl. 94, fig. 1, 2; Pl. 95, fig. 2, 3, 4, 5; Pl. 96, fig. 1, 2; ? Pl. 106, fig. 5; Pl. 158, fig. 1.
<i>C. cistiiformis</i> Stur	Pl. 141, fig. 6; Pl. 142, fig. 2, ? fig. 3; Pl. 143, fig. 7; Pl. 144, fig. 4; Pl. 145, fig. 1, 6; Pl. 147, fig. 1, 2, 3, 4.
<i>C. cruciatus</i> Sternb.	Pl. 113, fig. 3, 4; Pl. 114, fig. 3; Pl. 121, fig. 1; Pl. 130, fig. 1, 2; Pl. 131, fig. 1; Pl. 156, fig. 8.
<i>C. cucullatus</i> Weiss	Pl. 121, fig. 2; Pl. 122, fig. 1.
<i>C. deltenrei</i> K. et J.	Pl. 69, fig. 1.
<i>C. dictyoderma</i> K. et J.	Pl. 50, fig. 1, 2.
<i>C. discifer</i> Weiss	Pl. 58, fig. 4; Pl. 61, fig. 4; Pl. 62, fig. 3; Pl. 65, fig. 2; Pl. 67, fig. 2, 3; Pl. 68, fig. 3; Pl. 78, fig. 2.
<i>C. distachyus</i> Sternb.	Pl. 101, 102.
<i>C. elongatus</i> Renault	Pl. 132, fig. 3, 4.
<i>C. germanianus</i> Goepfert	Pl. 58, fig. 2; Pl. 69, fig. 2; Pl. 138, fig. 2; ? Pl. 71, fig. 1, 2.
<i>C. gigas</i> Bgt.	Pl. 90, fig. 3, 4, 5; Pl. 91; Pl. 92, fig. 1, 2, 3; Pl. 93, fig. 1, 2; Pl. 96, fig. 3.
<i>C. goepperti</i> Ett.	Pl. 51, fig. 3, 4; Pl. 53, 54; Pl. 55, fig. 1-4; Pl. 56, fig. 1-4; Pl. 61, fig. 3; Pl. 65, fig. 1; Pl. 66, fig. 1, 2, 3; Pl. 81, fig. 4; Pl. 135, fig. 1, 2; Pl. 136, fig. 1.
<i>C. haueri</i> Stur	Pl. 142, fig. 5, 6; Pl. 143, fig. 3, 4; Pl. 144, fig. 2, 3; Pl. 145, fig. 2, 3, 4, 7; Pl. 146, fig. 1, 2.
<i>C. infractus</i> Gutbier.	? Pl. 39, fig. 4; Pl. 131, fig. 2, 3; Pl. 132, fig. 1, ? 2; ? Pl. 133, fig. 1.
<i>C. jubatus</i> L. et H.	Pl. 97; Pl. 98; Pl. 99, fig. 1; Pl. 100, fig. 1, 2; Pl. 156, fig. 1, 2, 3; Pl. 157, fig. 1, 2, 3.
<i>C. multiramis</i> Weiss.	Pl. 114, fig. 1, 2; Pl. 115, fig. 2; Pl. 116, fig. 1; Pl. 117, fig. 1; Pl. 118, fig. 2; Pl. 119, fig. 2; Pl. 120, fig. 1, 2; Pl. 122, fig. 3, 4; Pl. 123, fig. 1-5; Pl. 124, fig. 2, 3; Pl. 125, fig. 1, 2; Pl. 126, fig. 1, 2; Pl. 127; Pl. 128, fig. 1.

- C. multiramis* Weiss var. *elongatus* Gutbier . . . Pl. 124, fig. 1; Pl. 130, fig. 3; Pl. 133, fig. 2, 3.
C. ohlsbachensis Sterzel Pl. 48, fig. 4; Pl. 49, fig. 2–7.
C. paleaceus Stur Pl. 66, fig. 6; Pl. 67, fig. 1; Pl. 81, fig. 1; Pl. 108, fig. 3, 4, 5; Pl. 109, 110, 111, 112; Pl. 113, fig. 1, 2; Pl. 114, fig. 4; Pl. 115, fig. 1; Pl. 116, fig. 2; Pl. 155, fig. 2, 3.
C. cf. paleaceus Stur Pl. 117, fig. 2.
C. pseudogermanianus K. et J. Pl. 59, fig. 4; Pl. 64, fig. 1; Pl. 68, fig. 4, 5.
C. ramifer Stur Pl. 141, fig. 4, 5; Pl. 142, fig. 1, 4; Pl. 143, fig. 1, 2; Pl. 144, fig. 1.
C. renaulti K. et J. Pl. 107, fig. 2, 3.
C. roemeri Goepfert Pl. 40, fig. 1, 2; Pl. 47, fig. 1; Pl. 138, fig. 4; Pl. 143, fig. 5, 6; Pl. 156, fig. 4, 5.
C. sachsei Stur Pl. 56, fig. 5, 6?; Pl. 57, fig. 1–3?, fig. 4–7; Pl. 58, fig. 1, 3; Pl. 59, fig. 1; Pl. 60, fig. 1, 2, 3; Pl. 61, fig. 1, 2; Pl. 62, fig. 1, 2; Pl. 63, fig. 4, 5, 6; Pl. 66, fig. 4; Pl. 95, fig. 1; Pl. 99, fig. 2.
C. schulzi Stur Pl. 103; Pl. 104, fig. 1.
C. schützei Stur Pl. 76, fig. 1, 2; Pl. 81, fig. 2, 3; Pl. 157, fig. 4.
C. schützeiformis K. et J. forma *typicus* K. et J. Pl. 68, fig. 1; Pl. 71, fig. 3; Pl. 73, fig. 5; Pl. 74, fig. 1; Pl. 75, fig. 1, 2; Pl. 79, fig. 1, 2; Pl. 80, fig. 1, 2.
C. schützeiformis K. et J. forma *intermedius* K. et J. Pl. 68, fig. 2; Pl. 73, fig. 1, 2; Pl. 76, fig. 3.
C. schützeiformis K. et J. forma *waldenburgensis* Kidston Pl. 71, fig. 4, 5; Pl. 72; Pl. 73, fig. 3, 4; Pl. 74, fig. 2, 3; Pl. 77, fig. 1, 2; Pl. 78, fig. 1, 3; Pl. 79, fig. 3, 4.
C. semicircularis Weiss Pl. 40, fig. 4; Pl. 42, fig. 1–5; Pl. 43, fig. 1, 4; Pl. 44, fig. 2, 3, 4; Pl. 45, fig. 1–3; Pl. 46, fig. 1–4; Pl. 47, fig. 2–6; Pl. 48, fig. 2; Pl. 49, fig. 1.
C. steinhaueri Bgt. Pl. 88, fig. 1.
C. suckowi Bgt. Pl. 39, fig. 2, 3; Pl. 82, 83, 84, 85, 86, 87; Pl. 88, fig. 2, 3; Pl. 89; Pl. 90, fig. 2; Pl. 136, fig. 2, 3; Pl. 137, fig. 1, 2; Pl. 138, fig. 1.
C. taitianus K. et J. Pl. 147, fig. 5; Pl. 148, fig. 1; Pl. 149, fig. 1, 2, 3, 4, 5.
C. transversalis K. et J. Pl. 59, fig. 2.
C. undulatus Sternb. Pl. 1–23; Pl. 24, fig. 1, 2, 3; Pl. 25–28; Pl. 29, fig. 1, 2; Pl. 30; Pl. 31, fig. 1, 2, 3, (4), 5; Pl. 32–37; Pl. 38, fig. 1; Pl. 39, fig. 1; Pl. 44, fig. 1; Pl. 47, fig. 7; Pl. 48, fig. 1; Pl. 50, fig. 5; Pl. 51, fig. 1; Pl. 137, fig. 3; Pl. 157, fig. 5.
C. vaginatus Zeiller Pl. 48, fig. 3; Pl. 52, fig. 8.
C. vandergrachtii K. et J. Pl. 69, fig. 3, 4; Pl. 70.
C. verticillatus L. et H. Pl. 51, fig. 2; Pl. 52, fig. 3–7; Pl. 156, fig. 7.
C. wedekindi Weiss Pl. 40, fig. 3; Pl. 41, fig. 4; Pl. 43, fig. 2, 3, 5.
-
- Asterocalamites radiatus* Bgt. Pl. 149, fig. 6; Pl. 150, fig. 1, 2, 3; Pl. 151, fig. 1; Pl. 152, fig. 1, 2, 3, 4, 5; Pl. 153, fig. 1, 2, 3, 4, 5; Pl. 154, fig. 4.

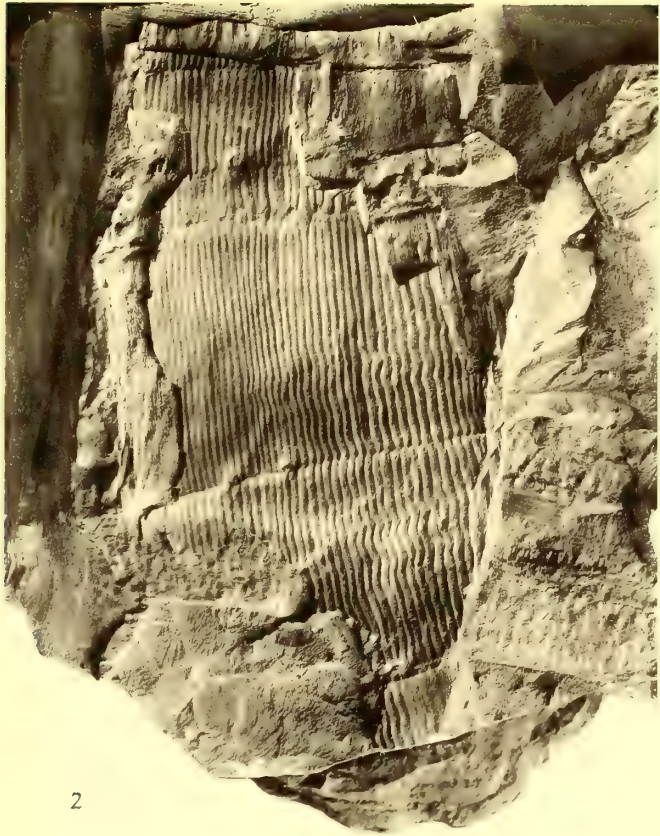
C. undulatus Sternb.





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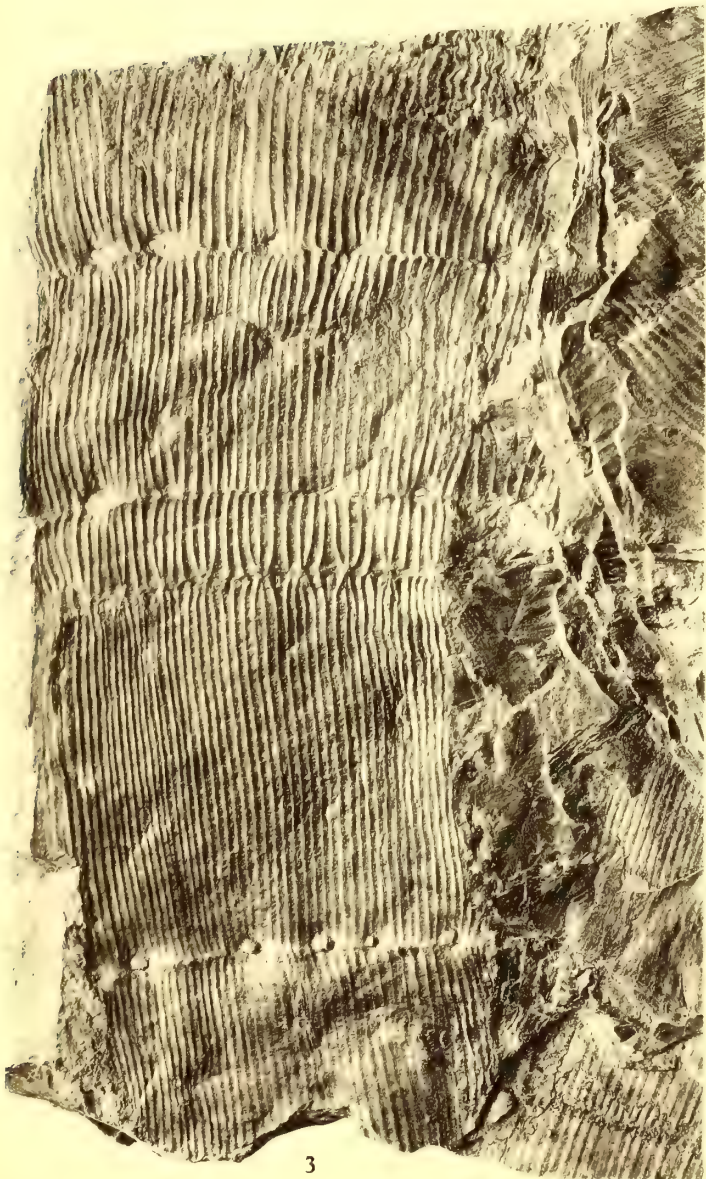
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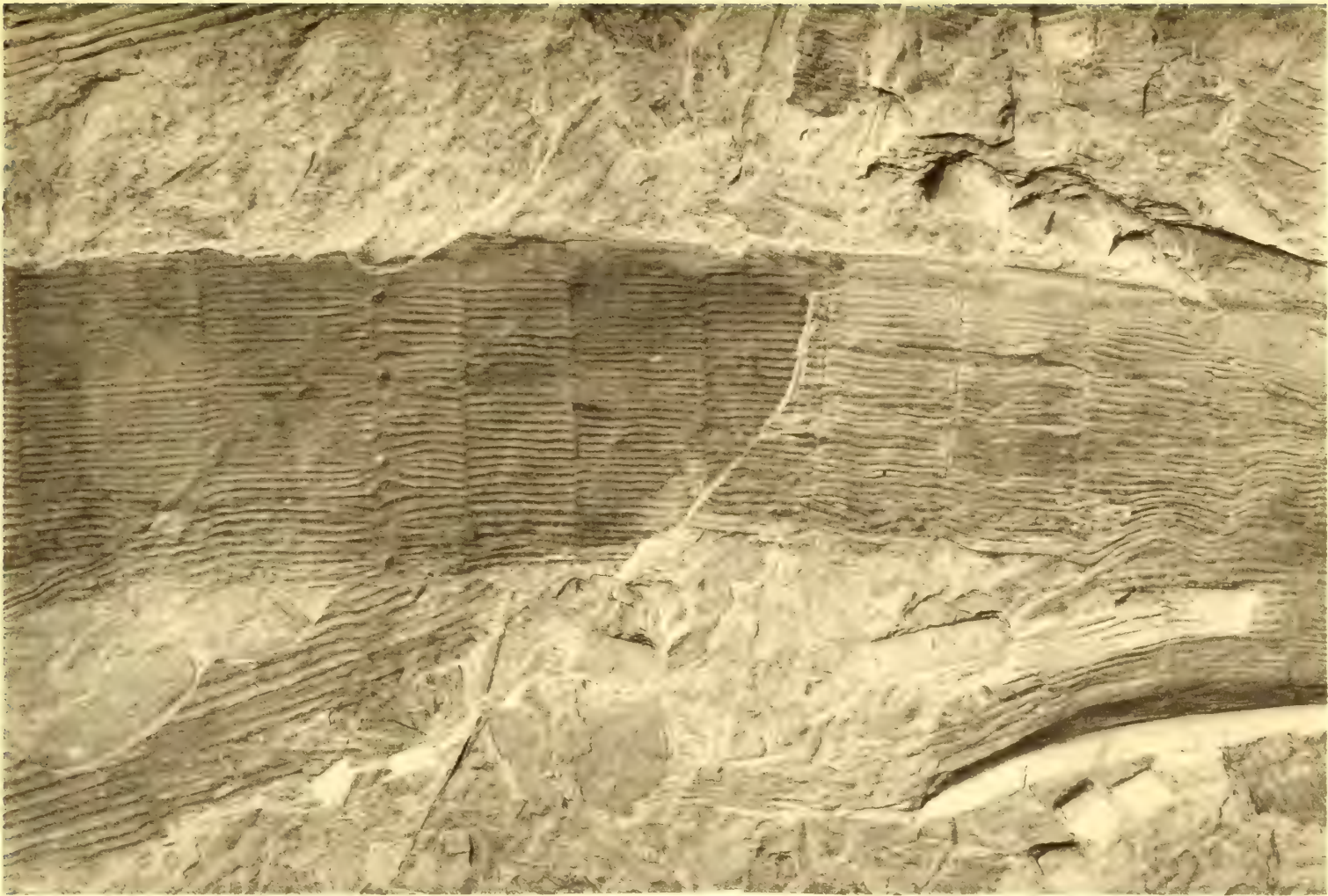


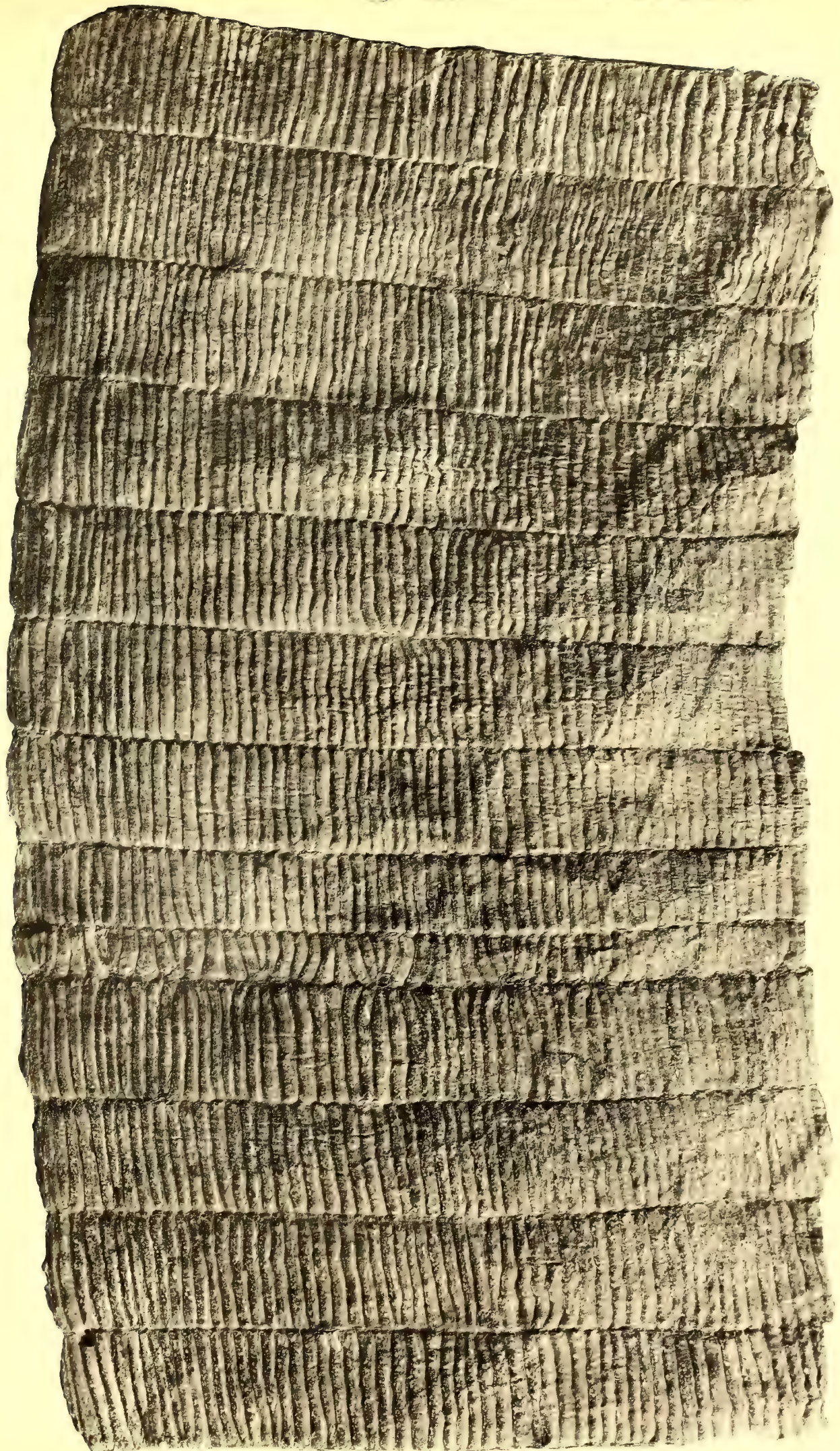
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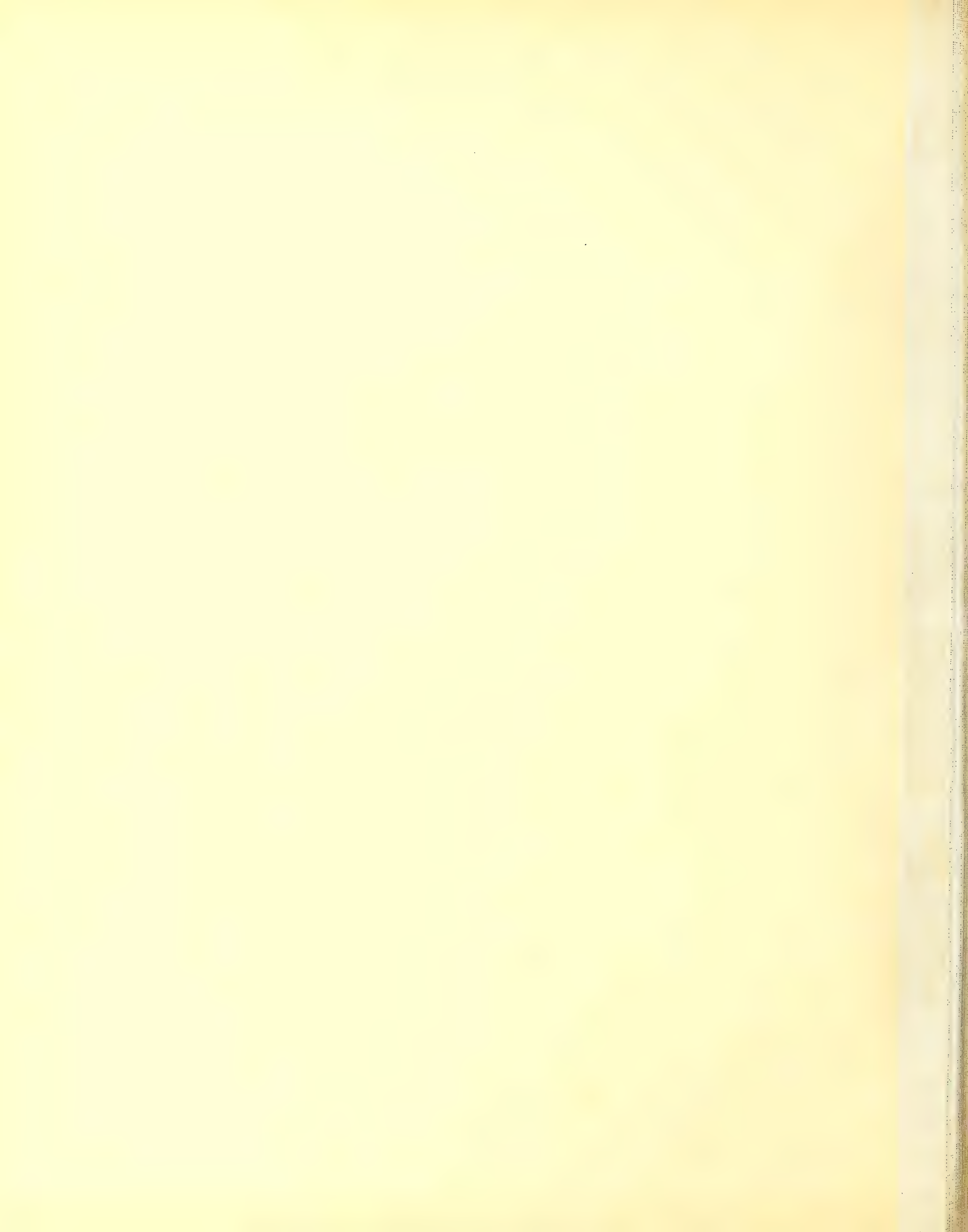
3

C. undulata Strob.

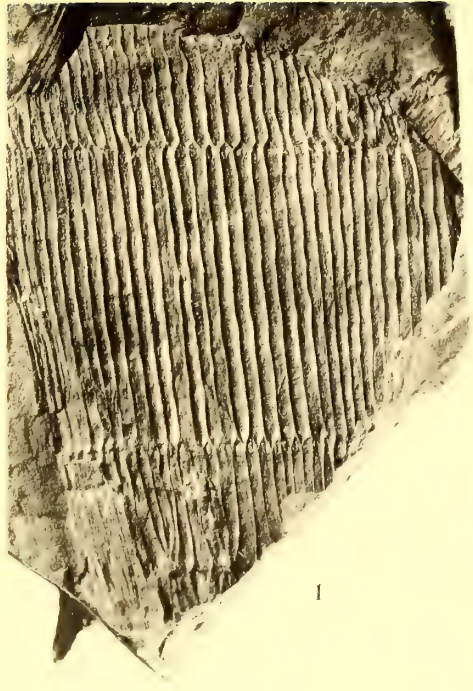




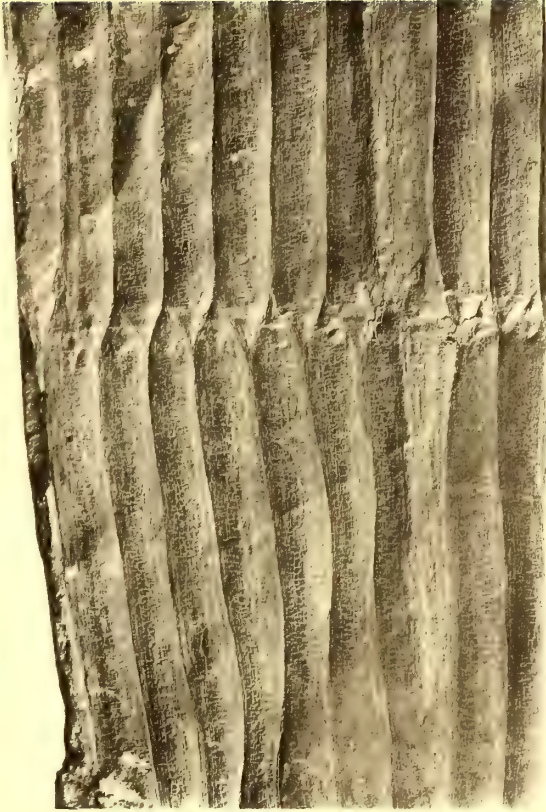
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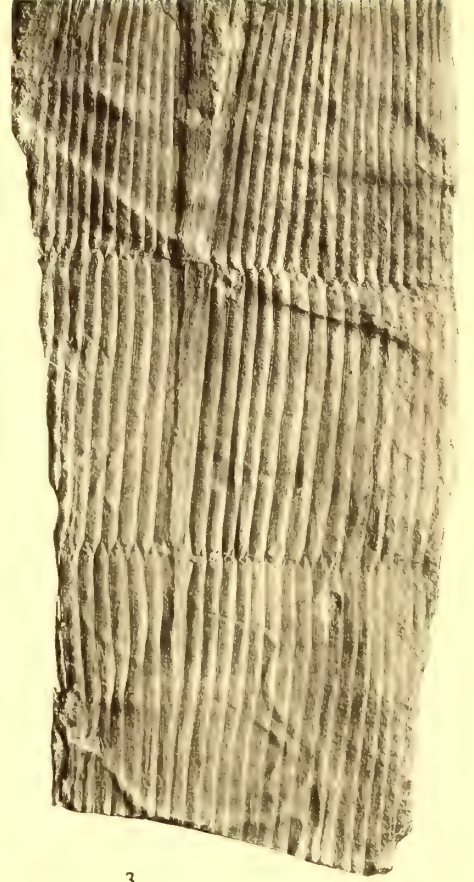
B. punctatus Stern.



1



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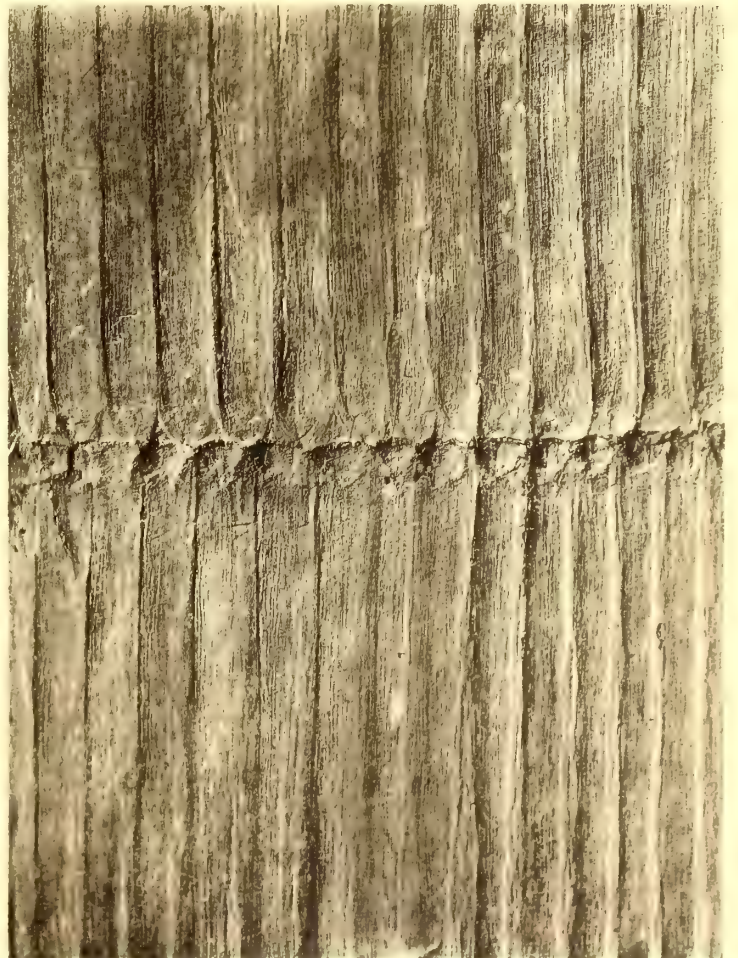


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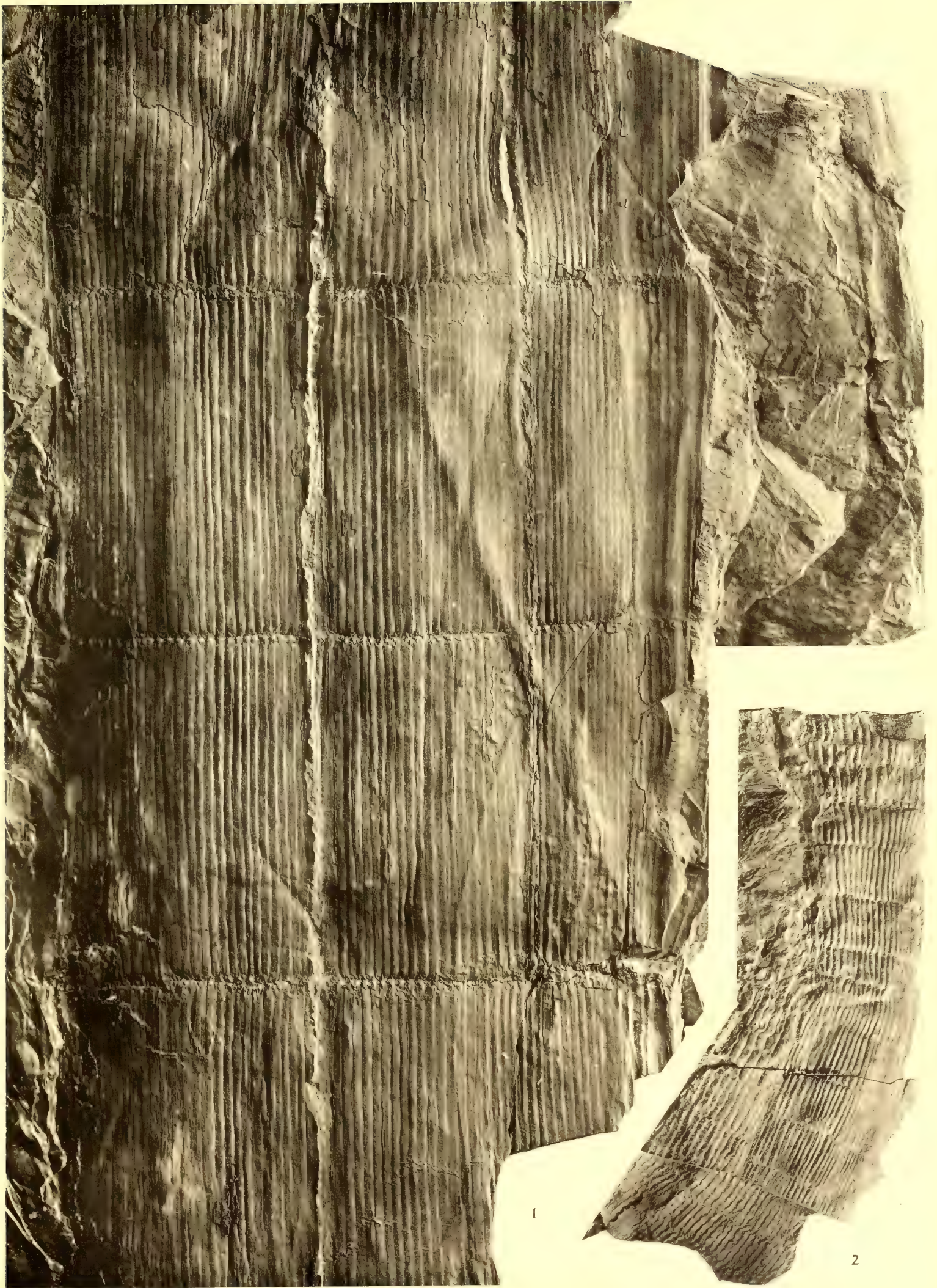
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2

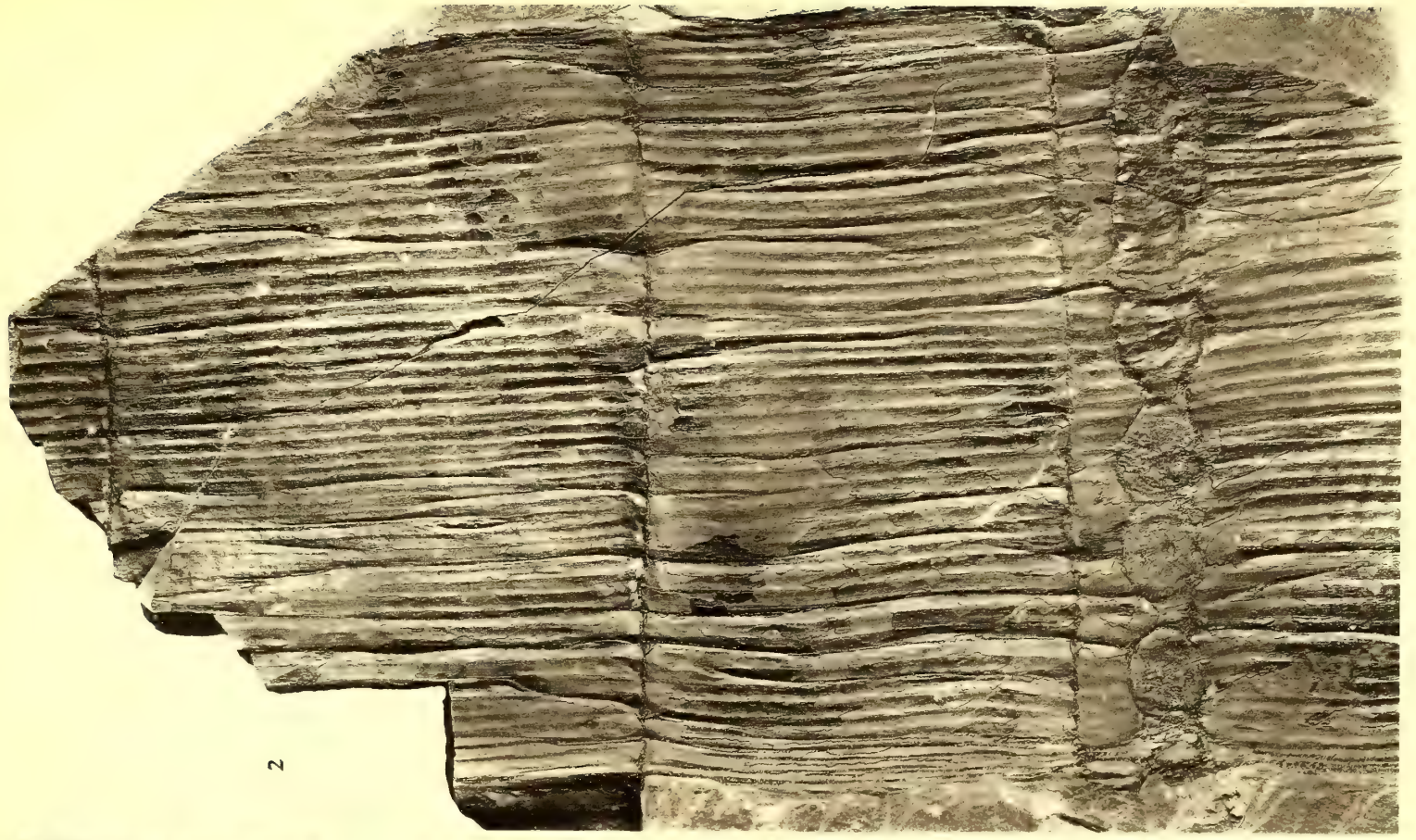


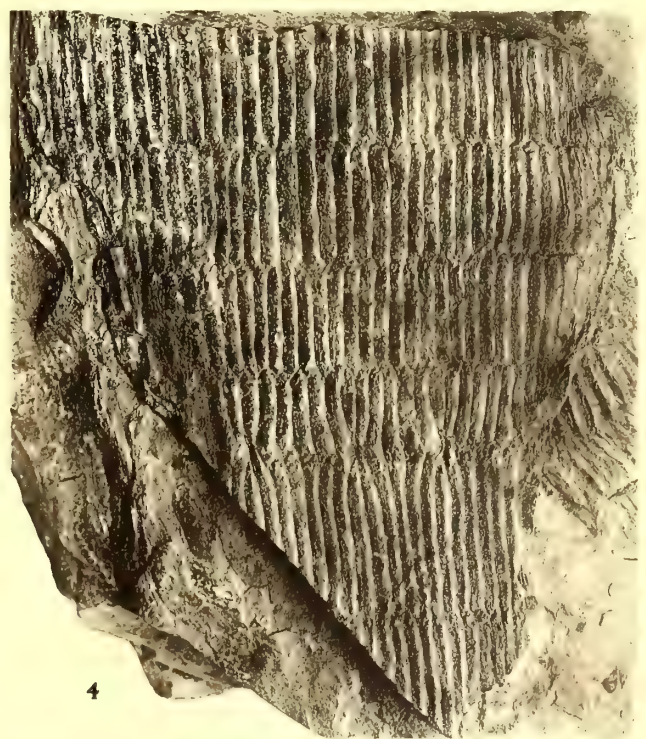
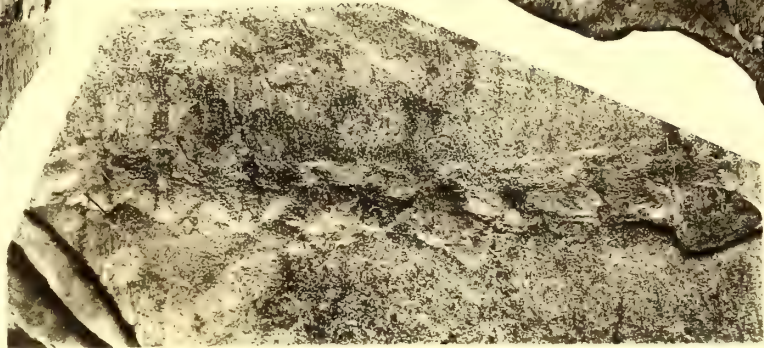
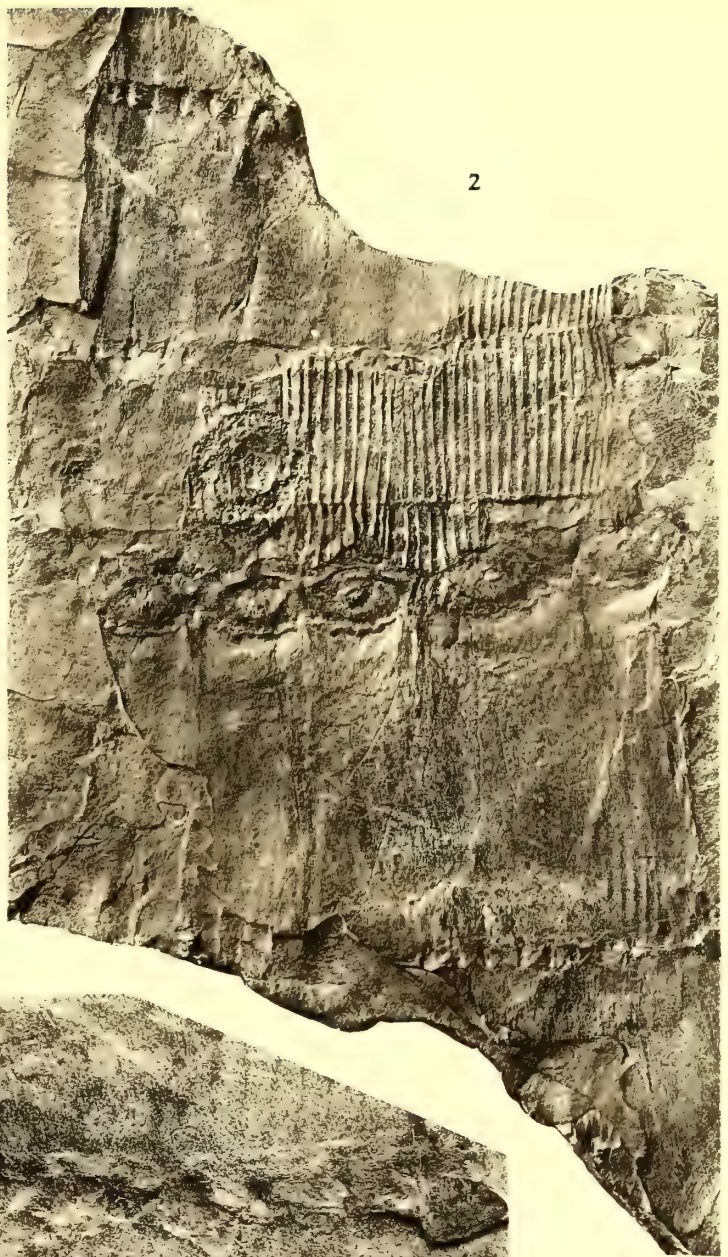
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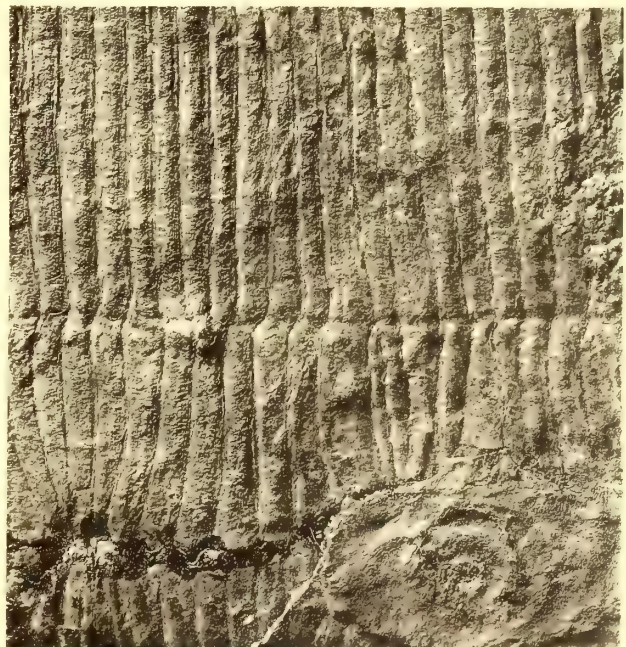
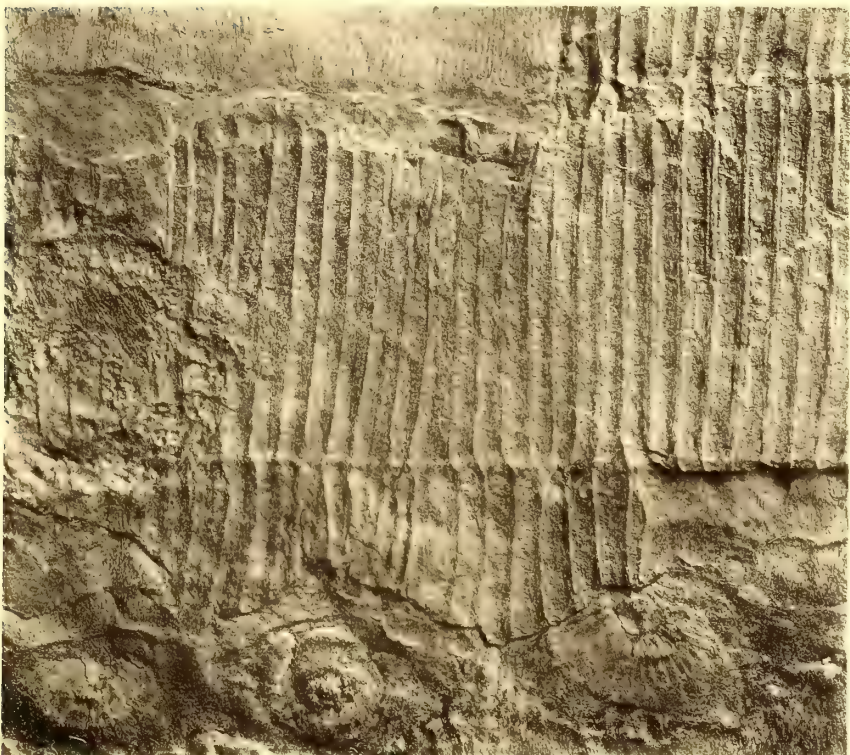
C. semivittata Staud.

PL. 8

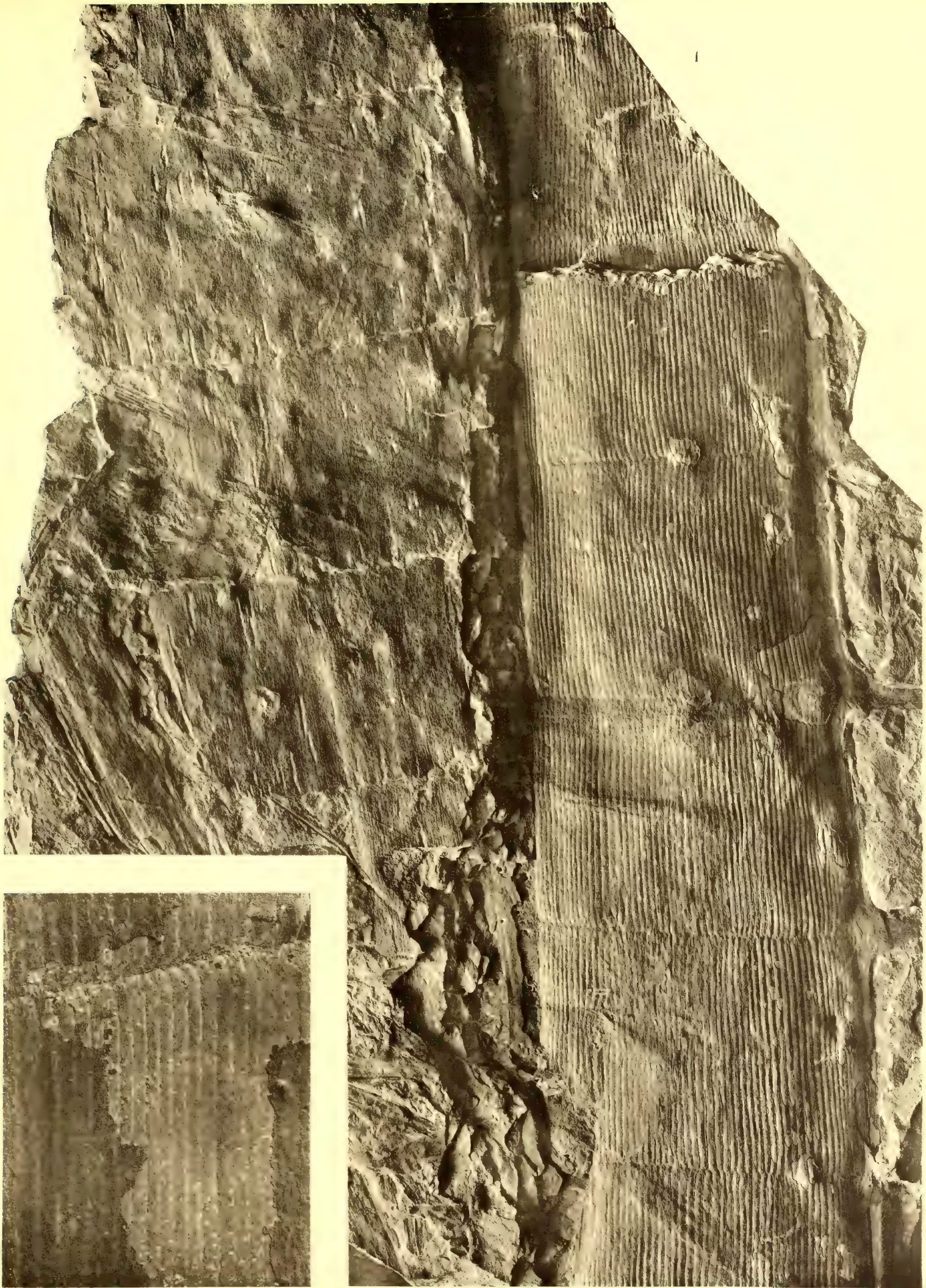




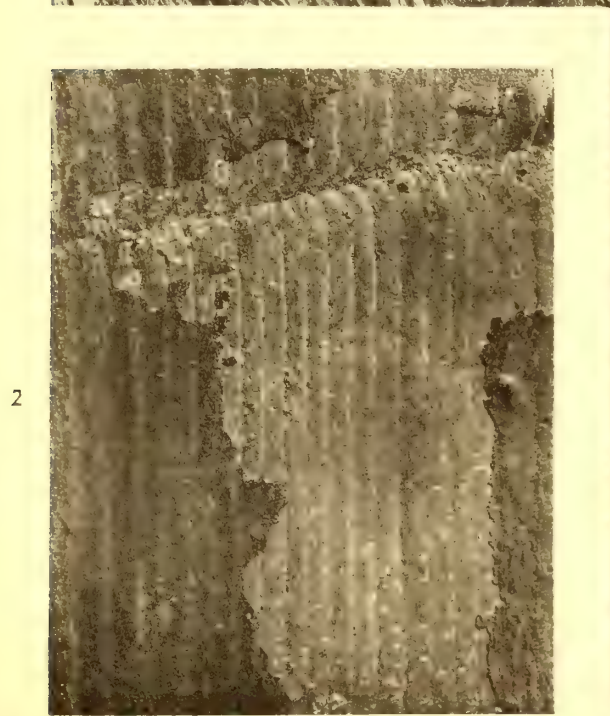
C. ...



C. unguiculata L.



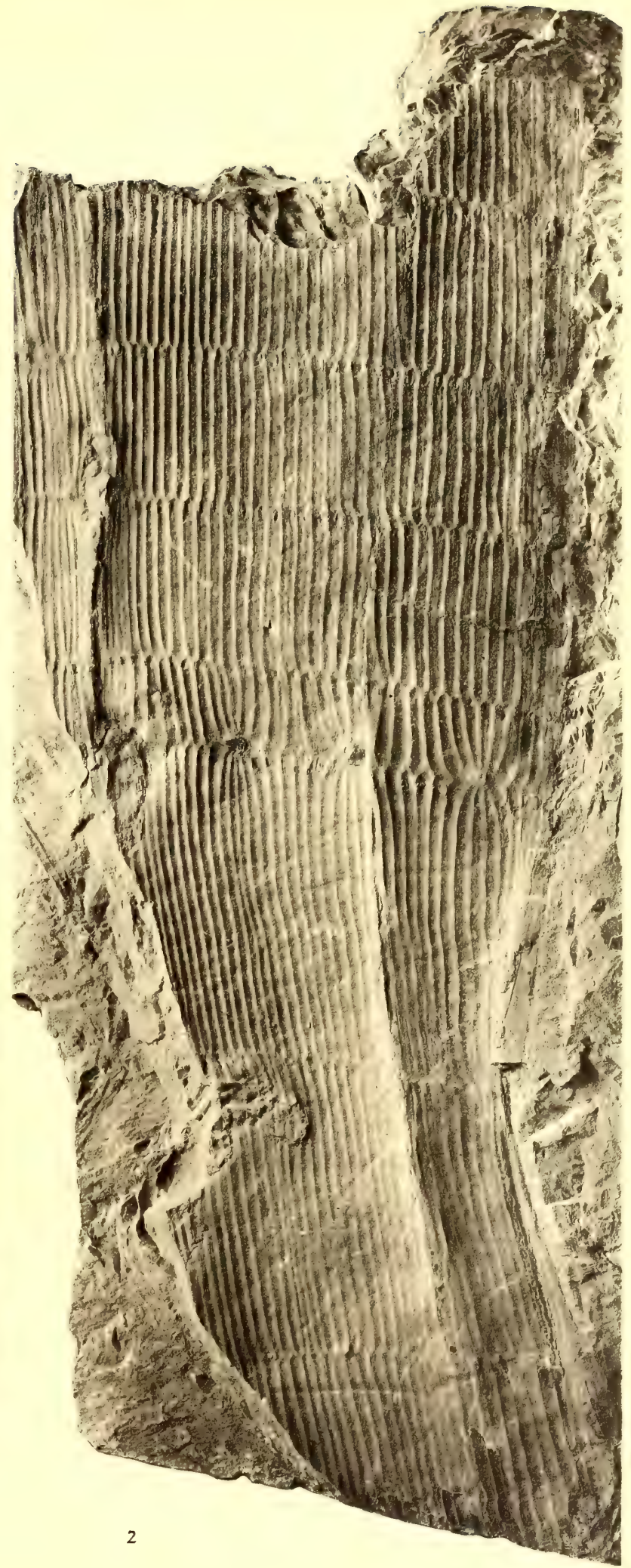
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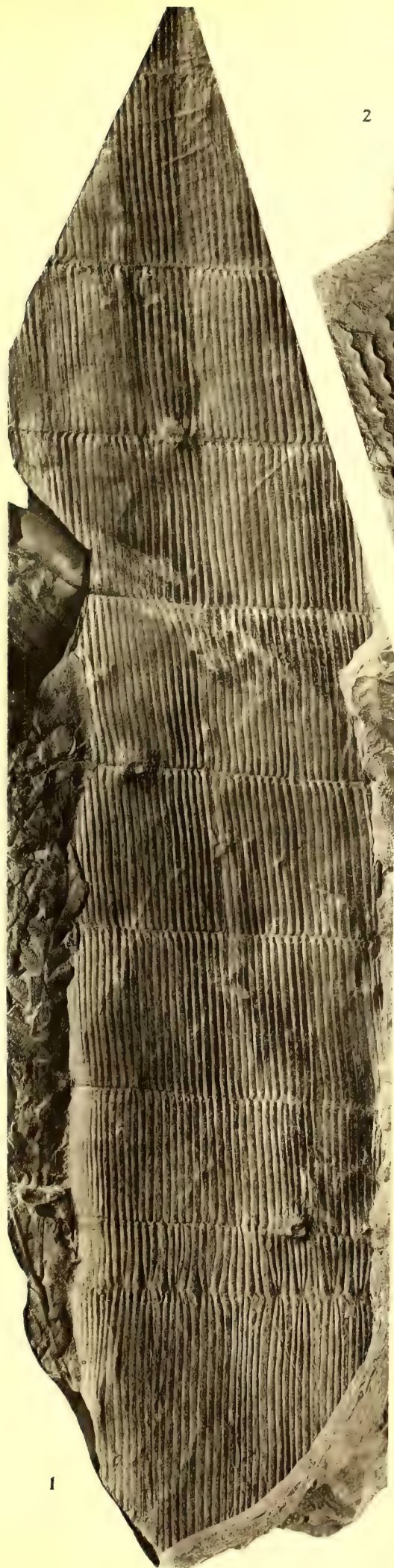
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E.



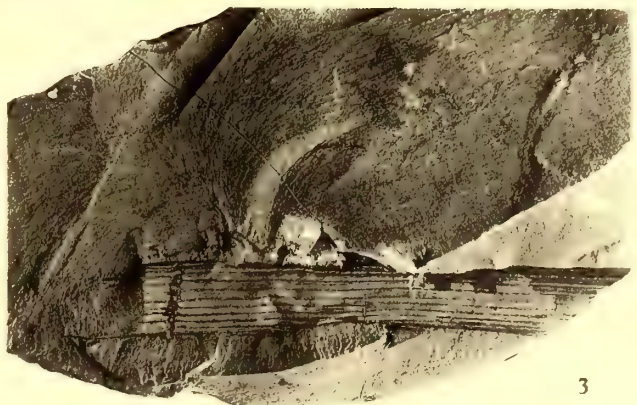
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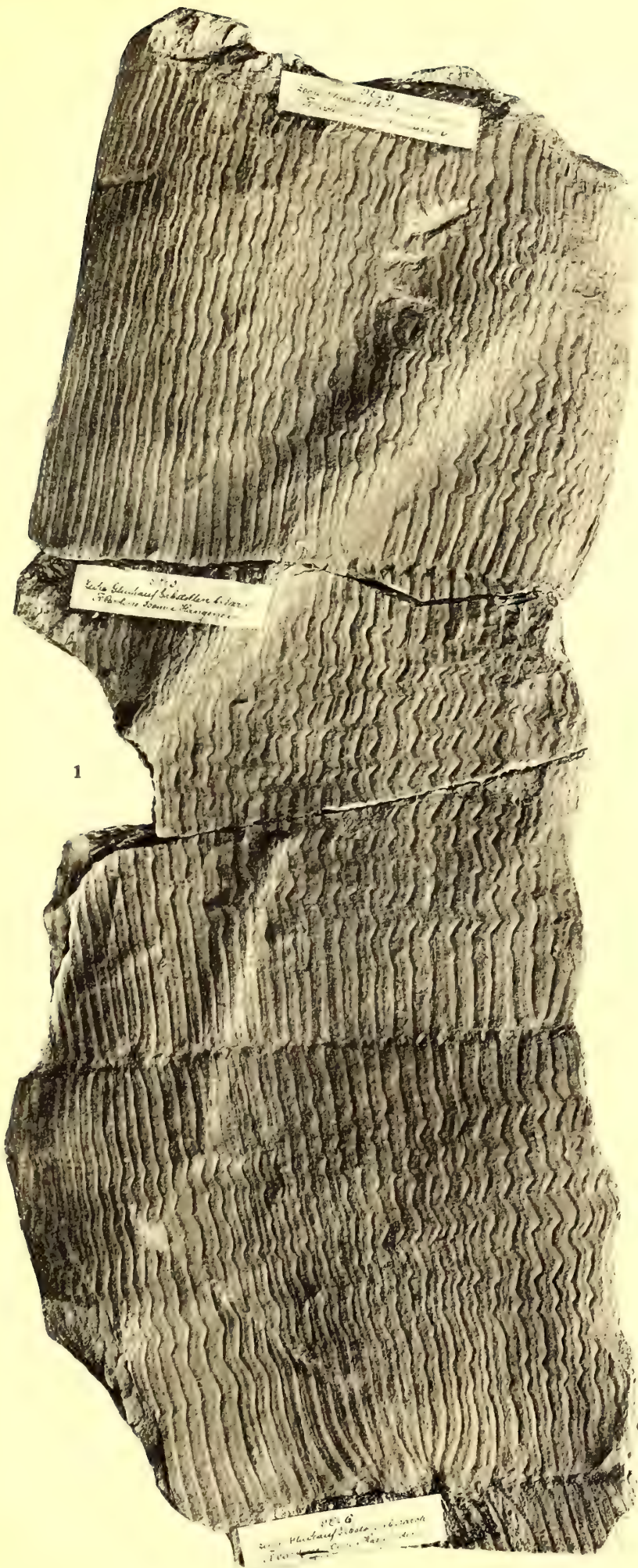


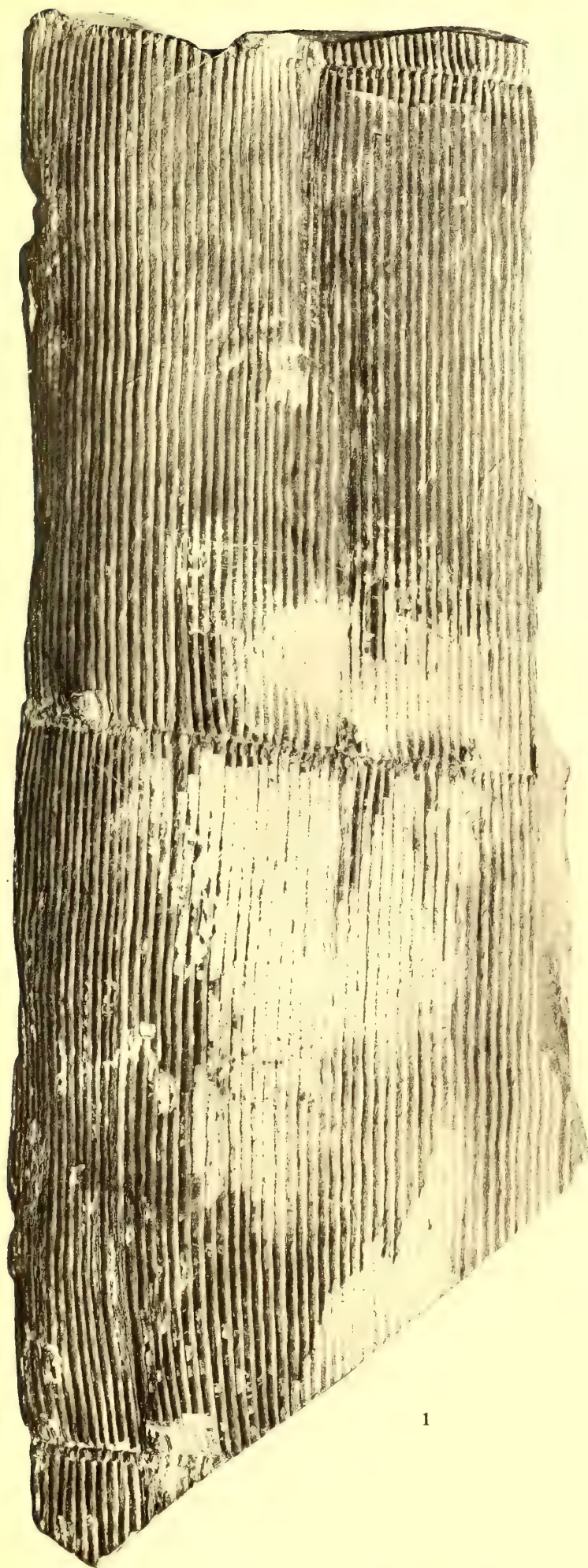
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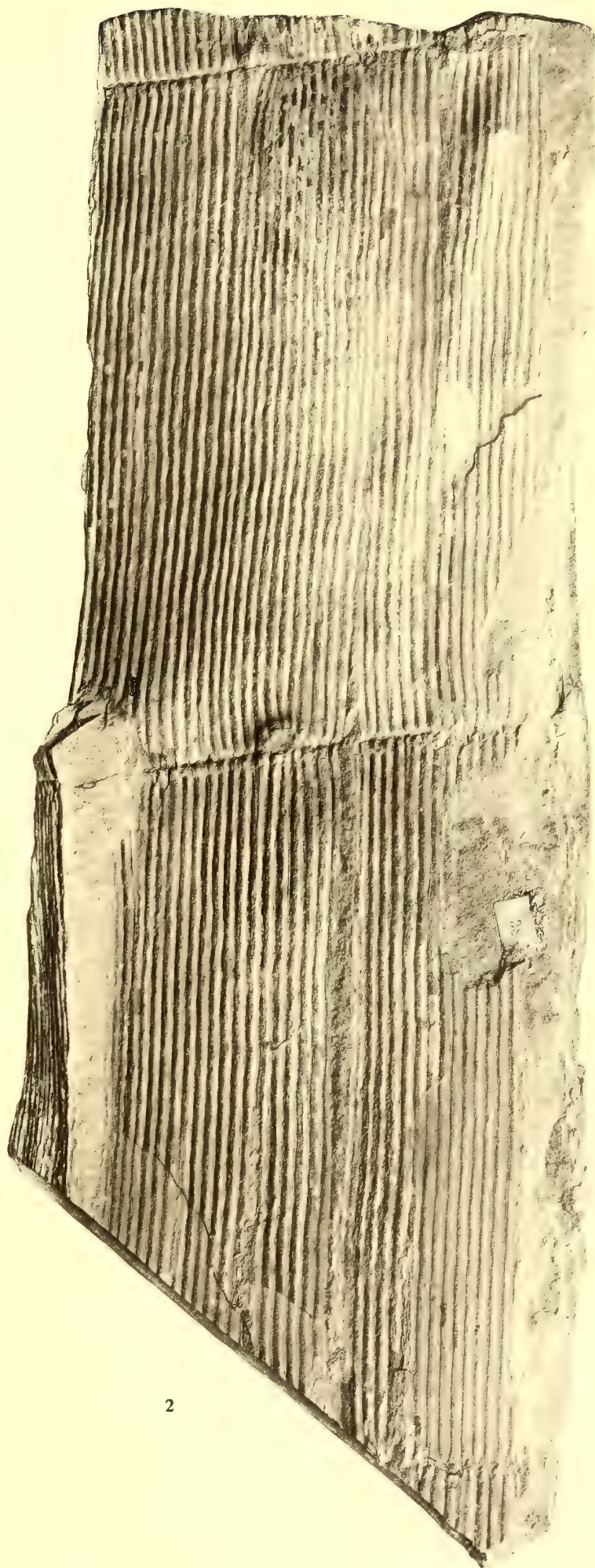


C. ...





1

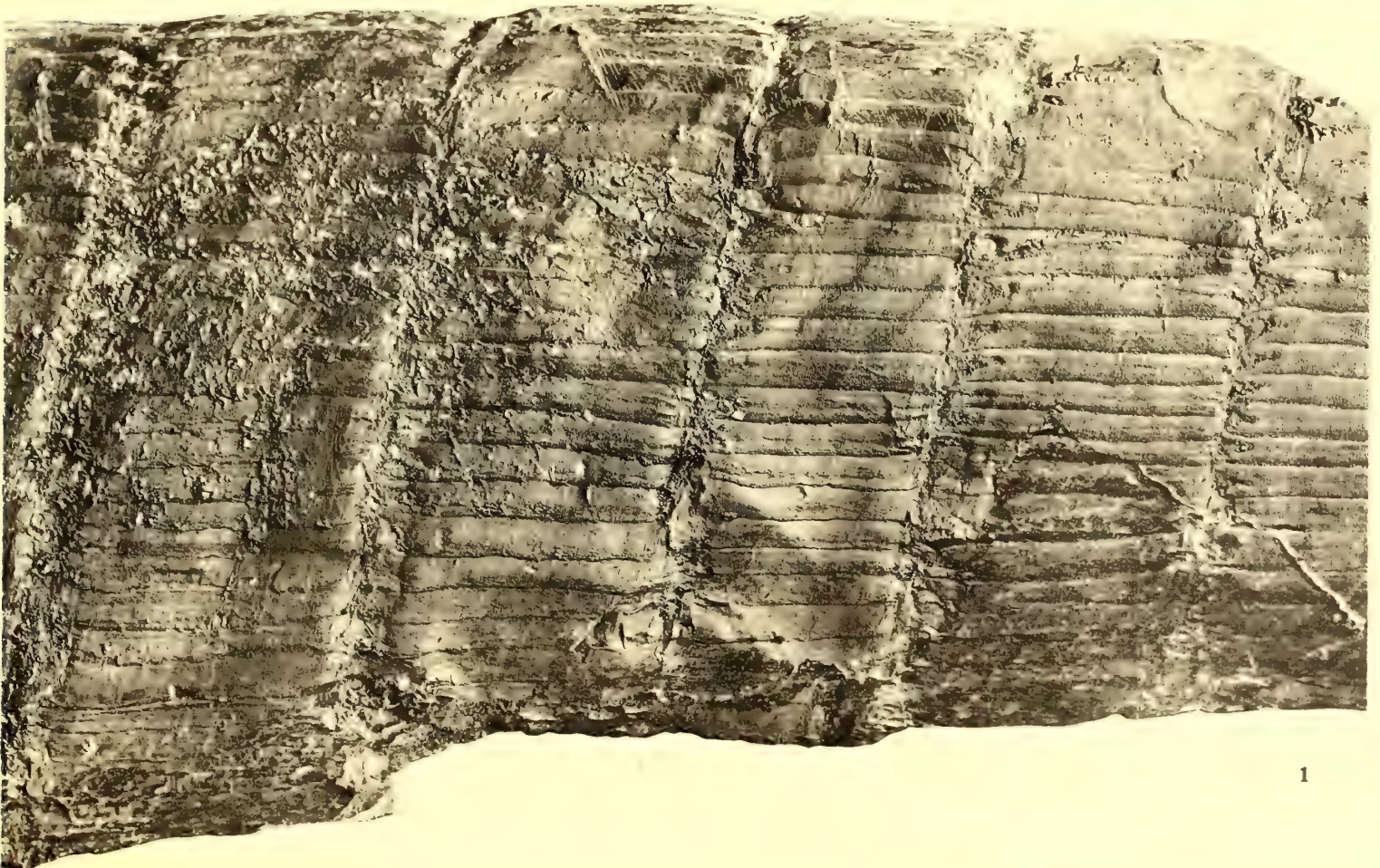


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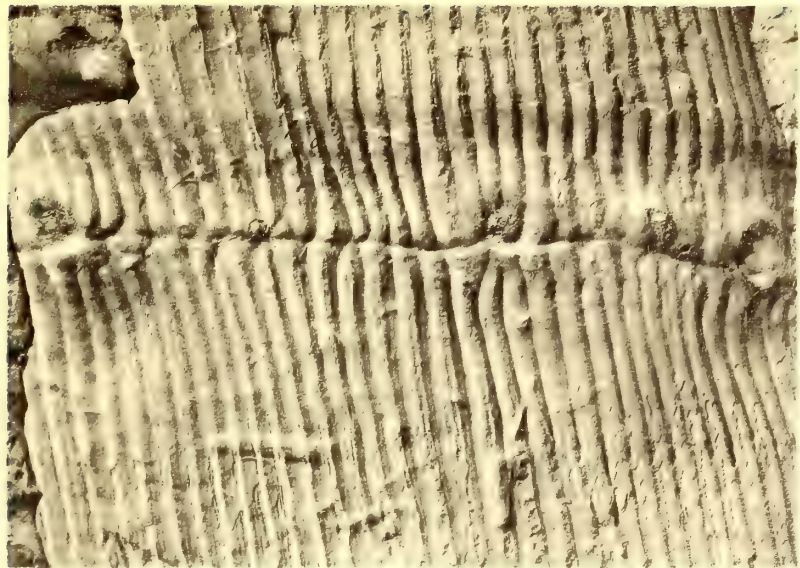
C. medietas 1/2



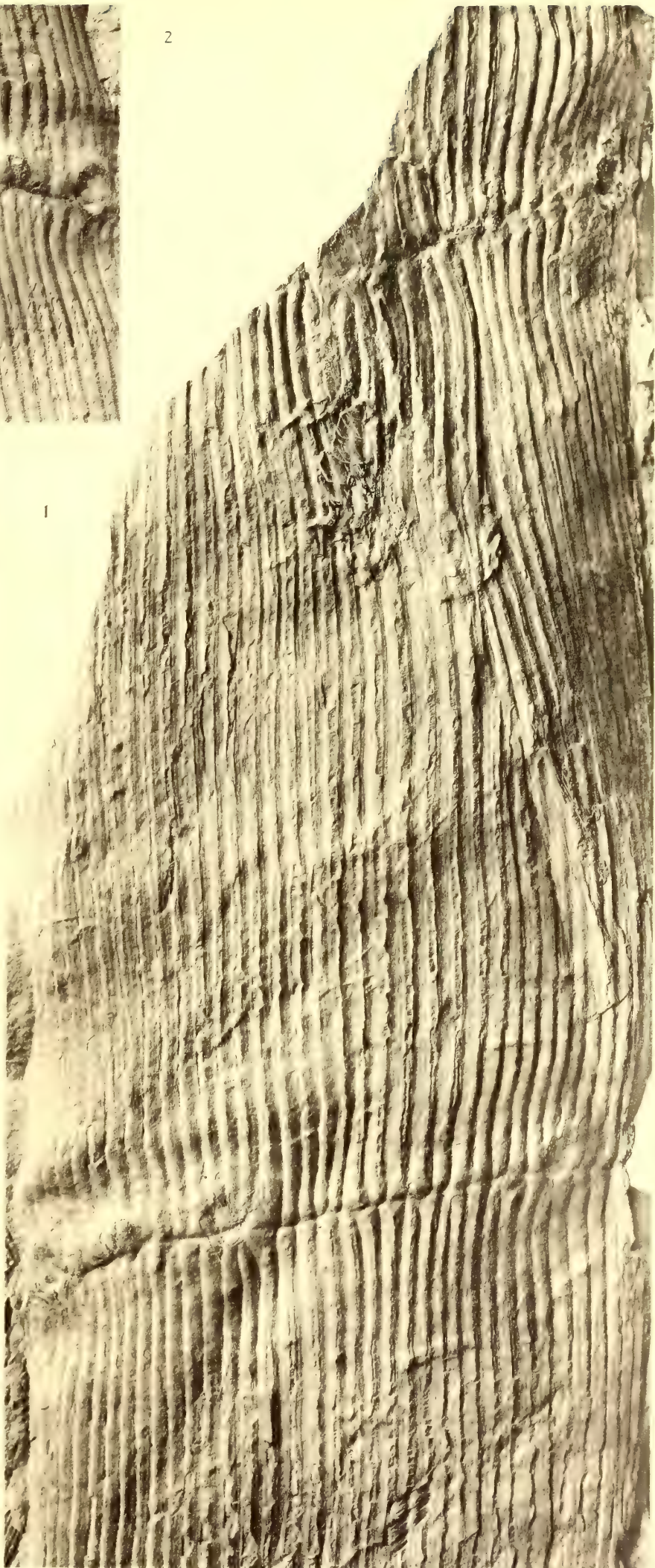
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1



2



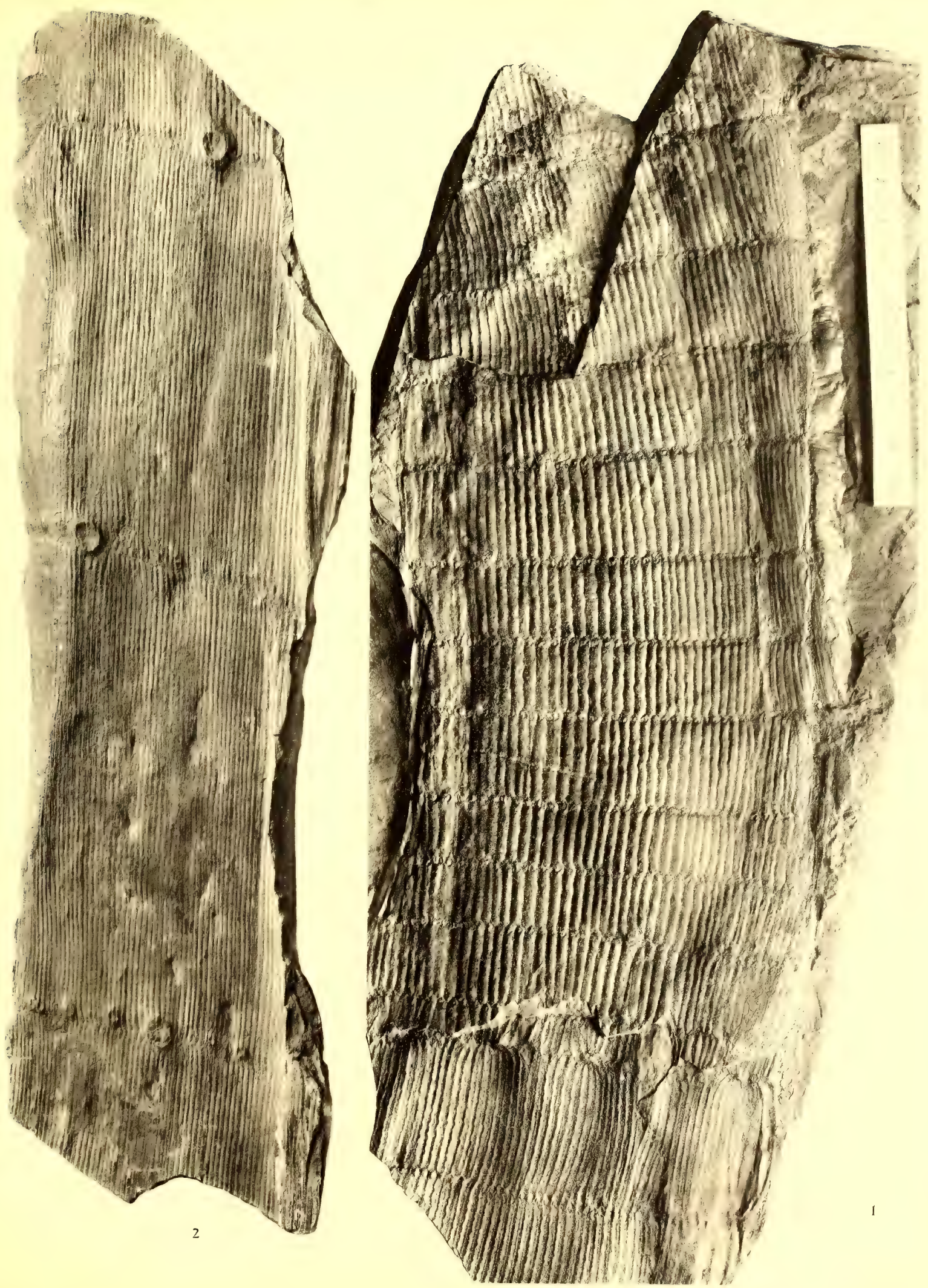
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3



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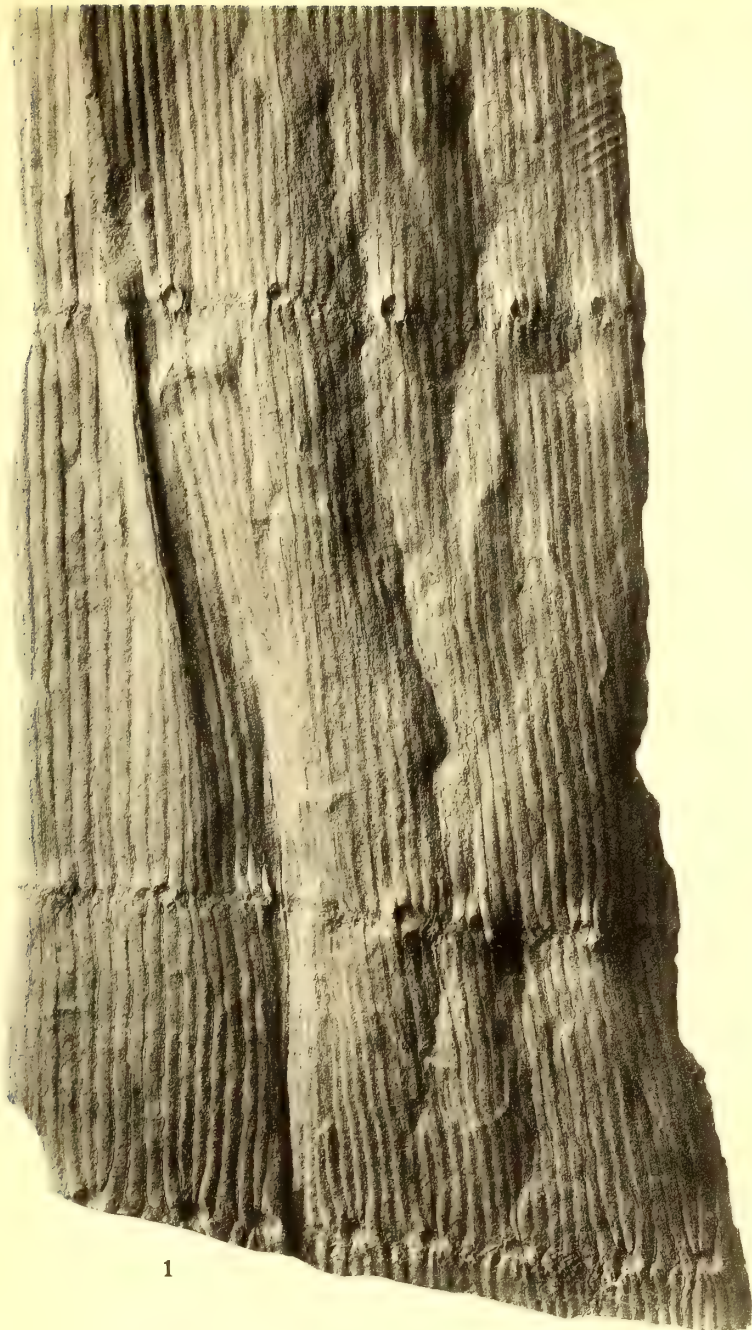
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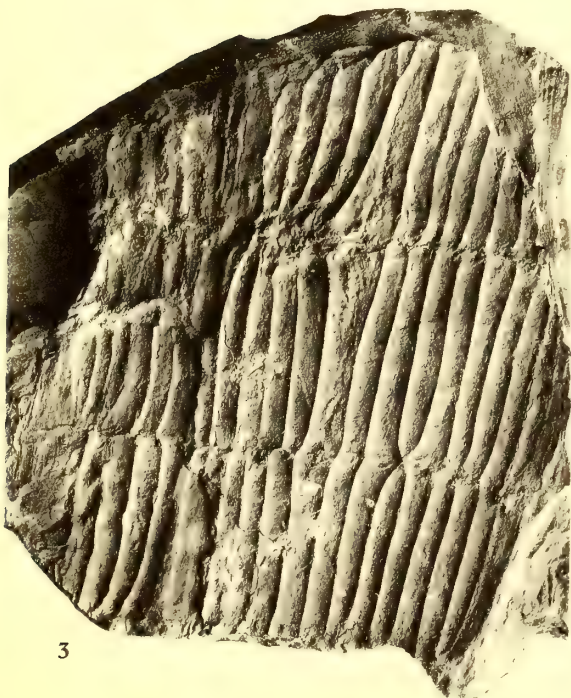


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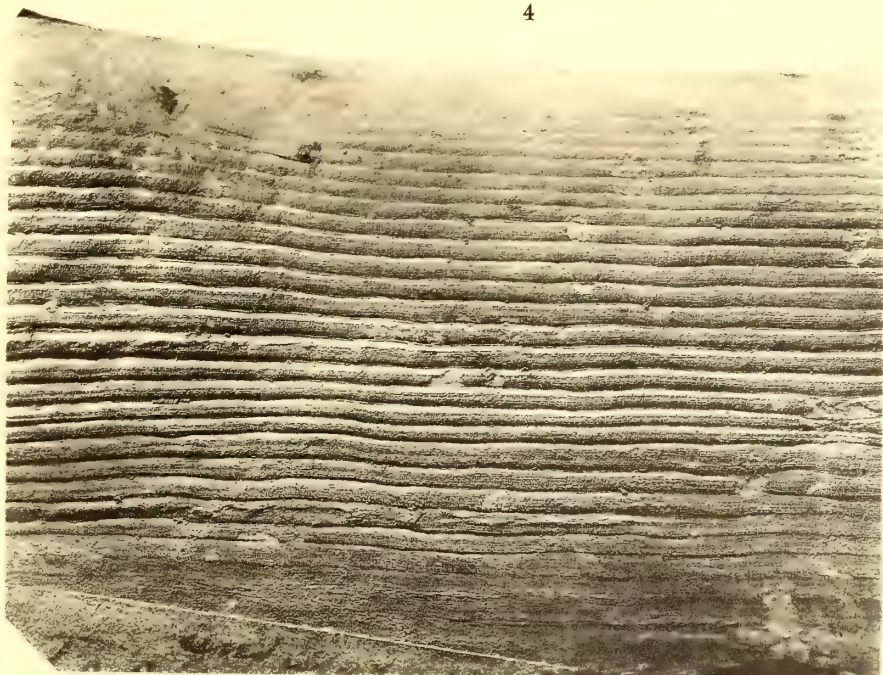


2

Original zur
 Abhandl. d. geol.
 Landesanstalt
 Bd. 11
 Taf. XVII Fig. 7



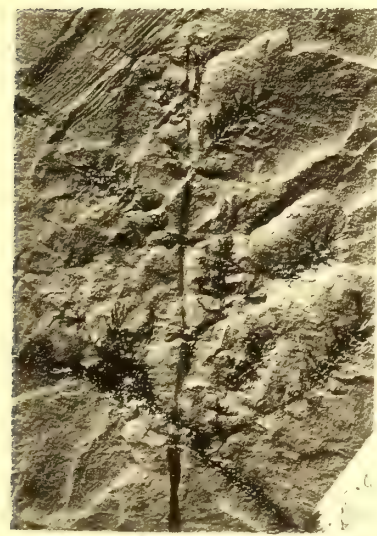
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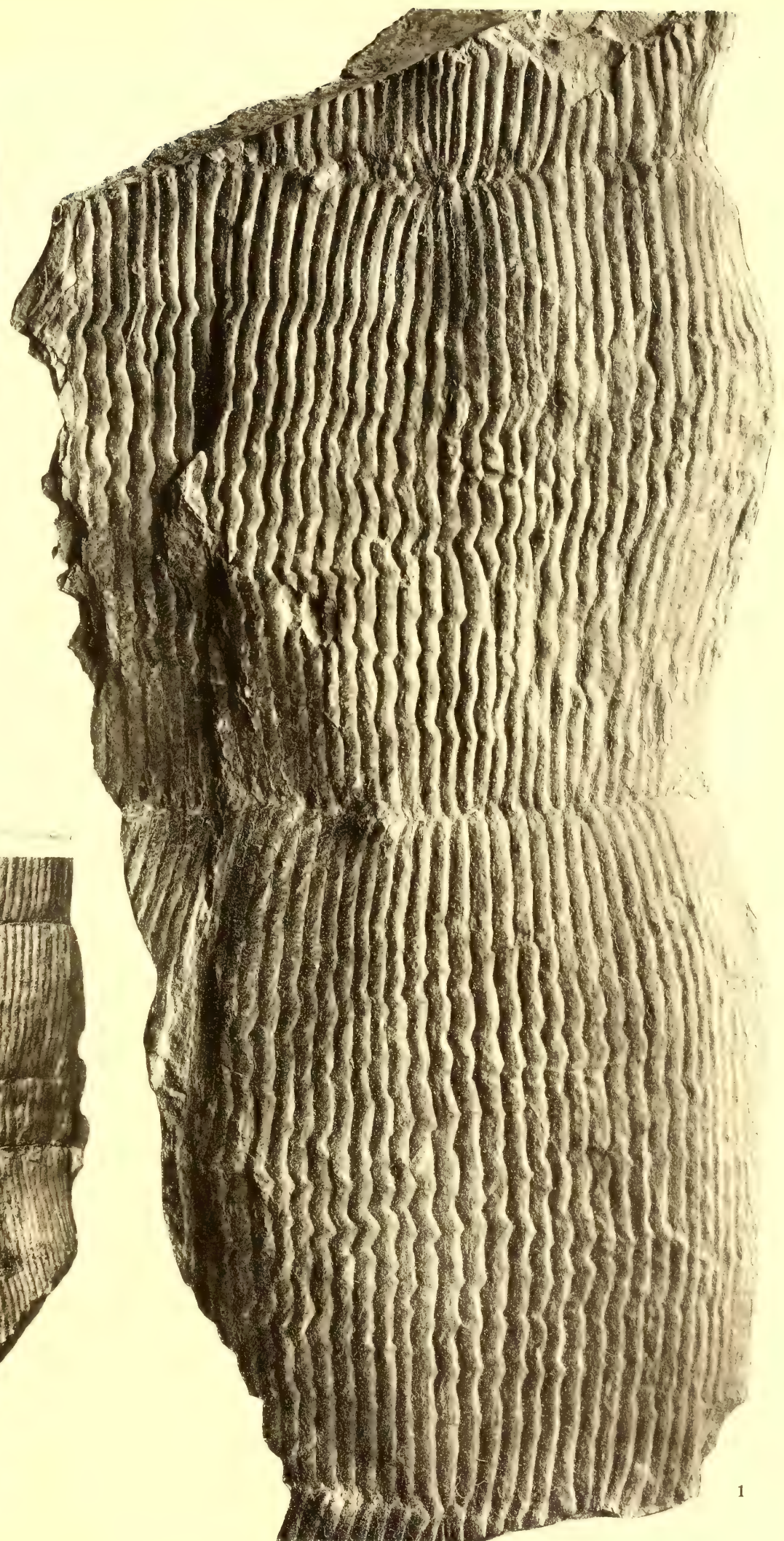


4

Calamites

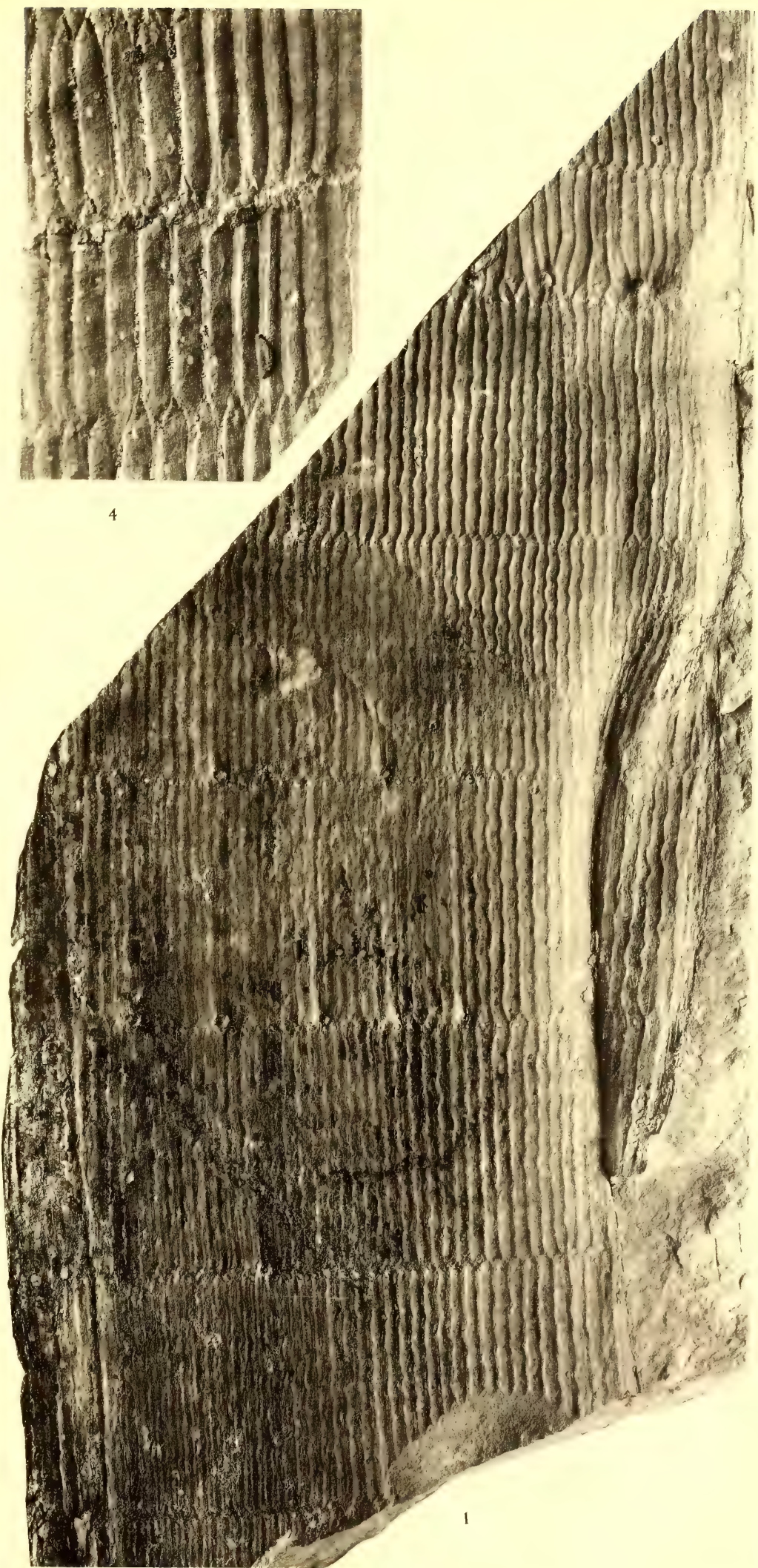
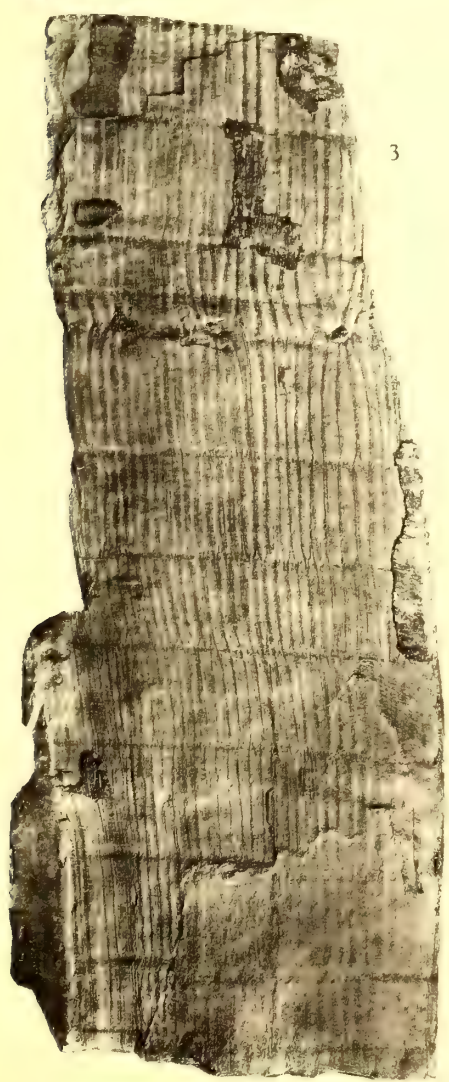


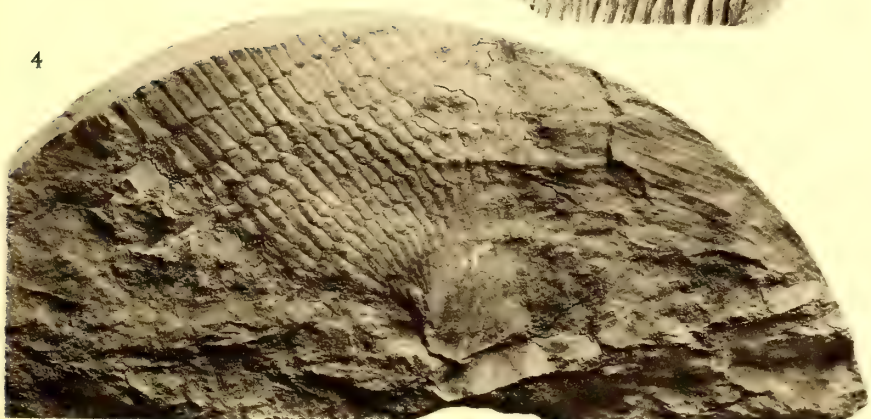
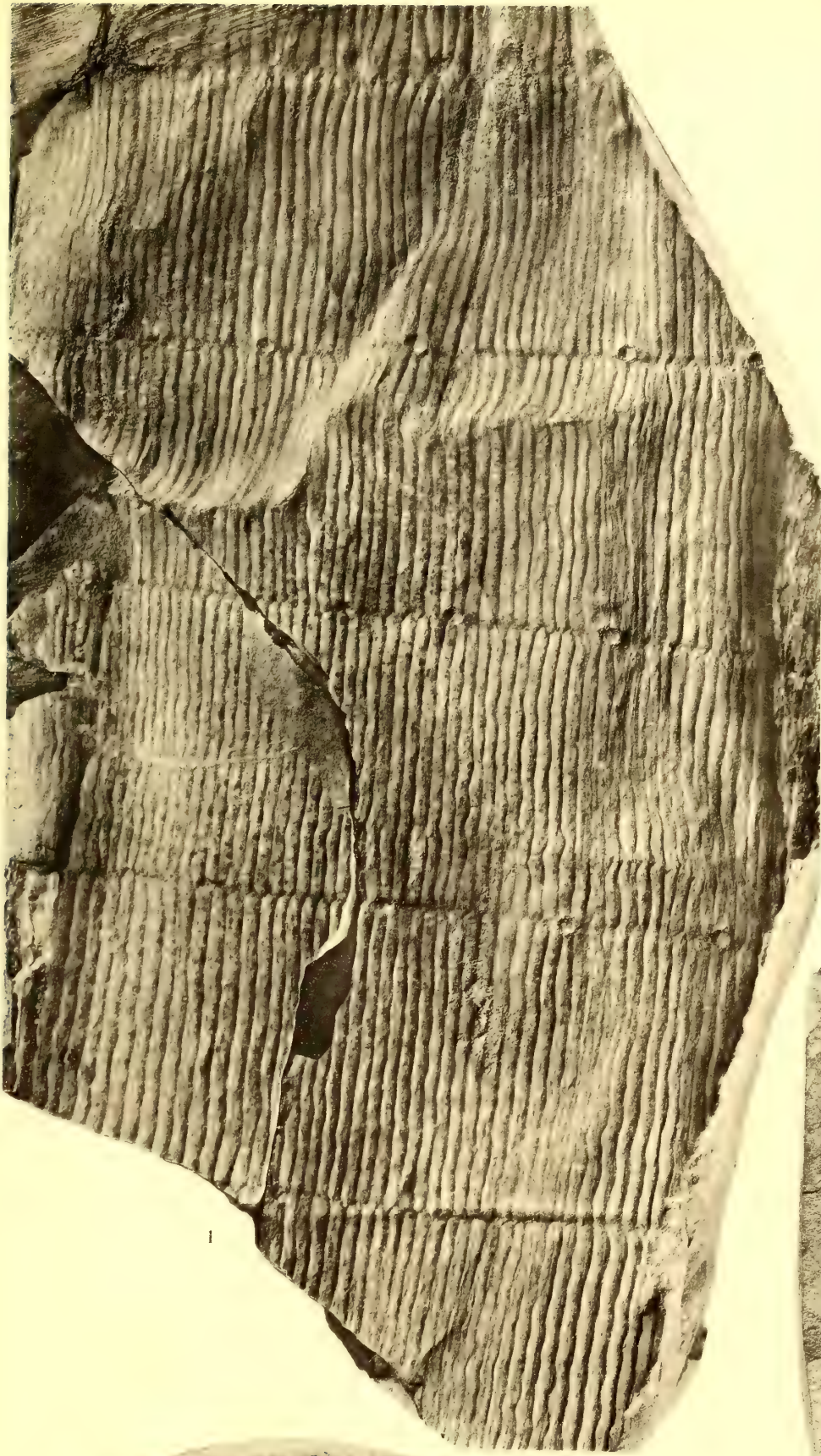
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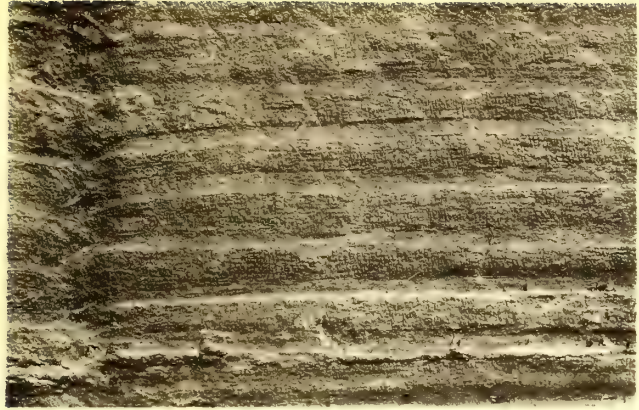


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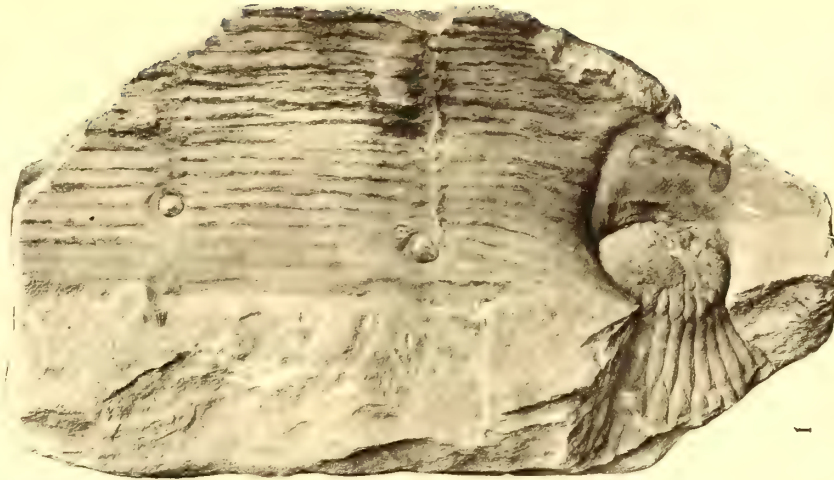
C. undulata Linn.



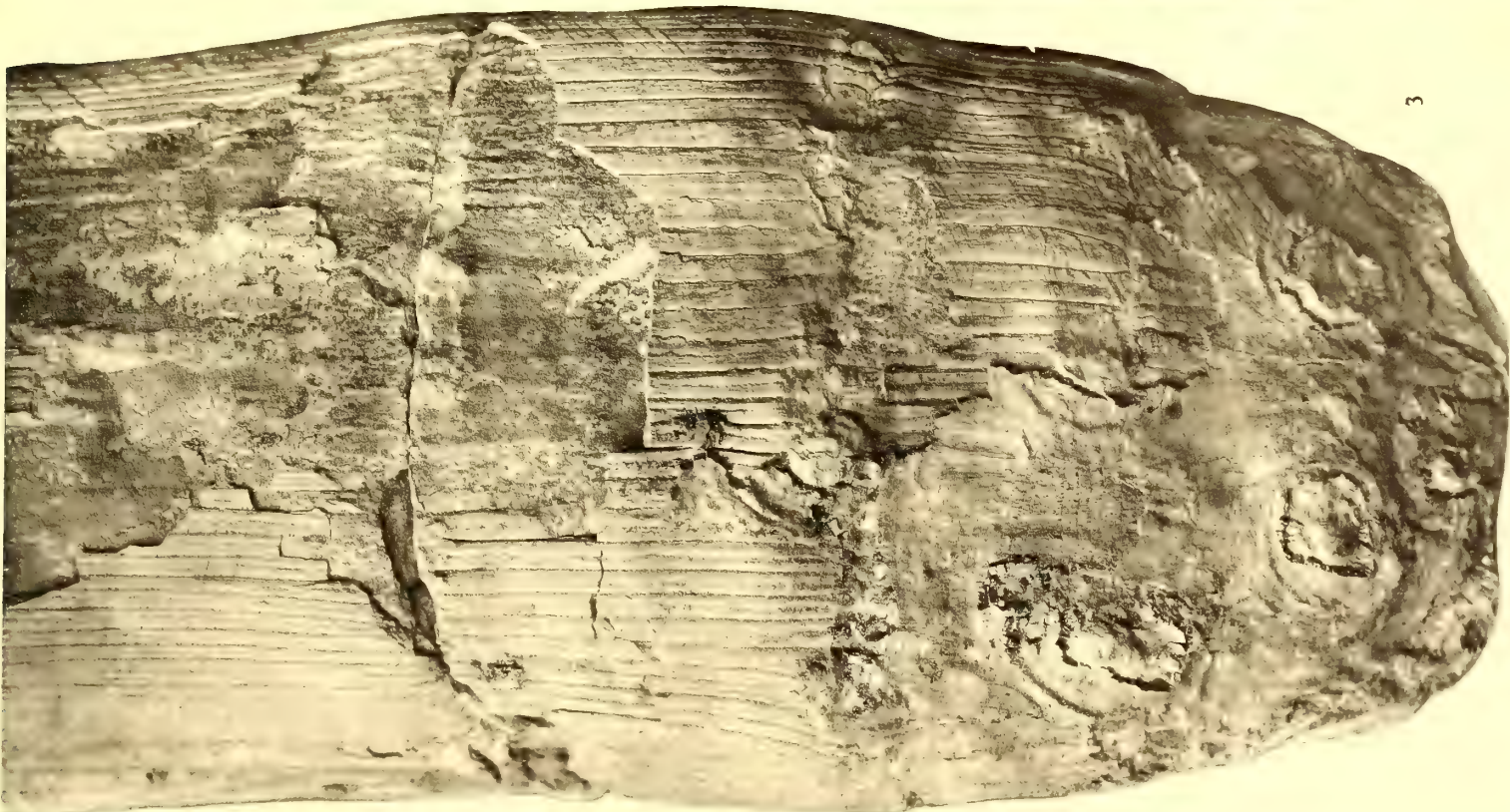




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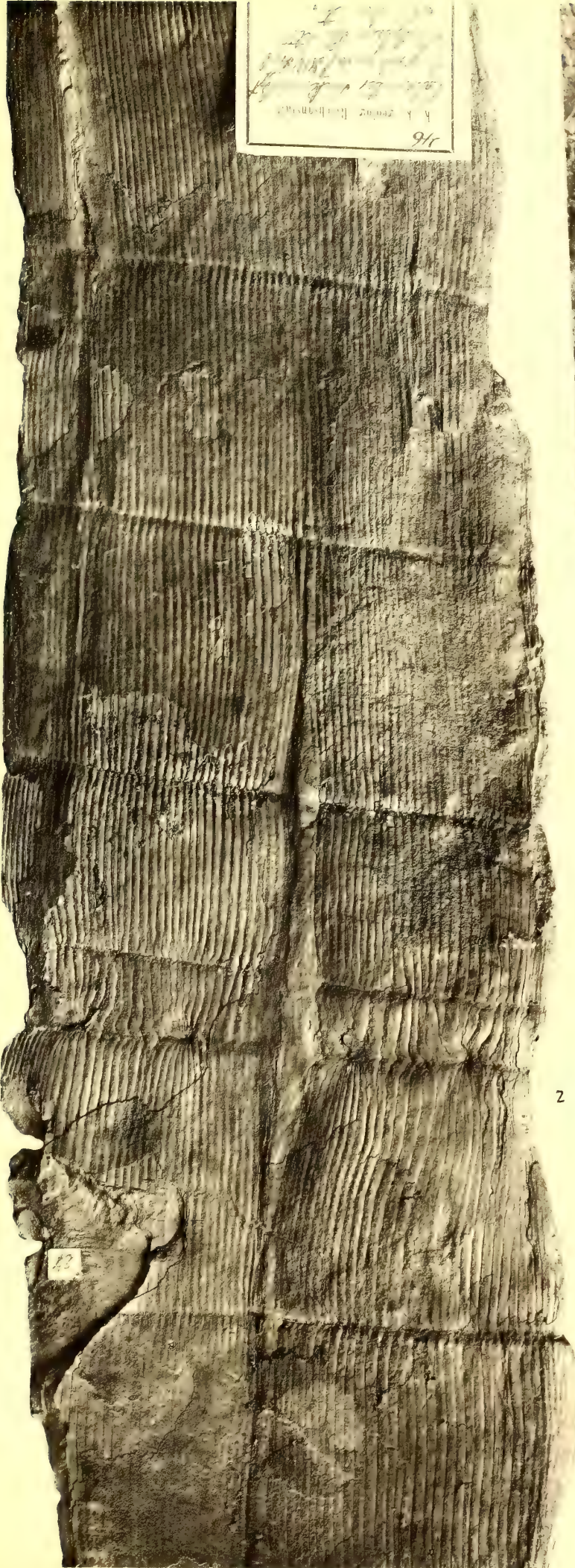


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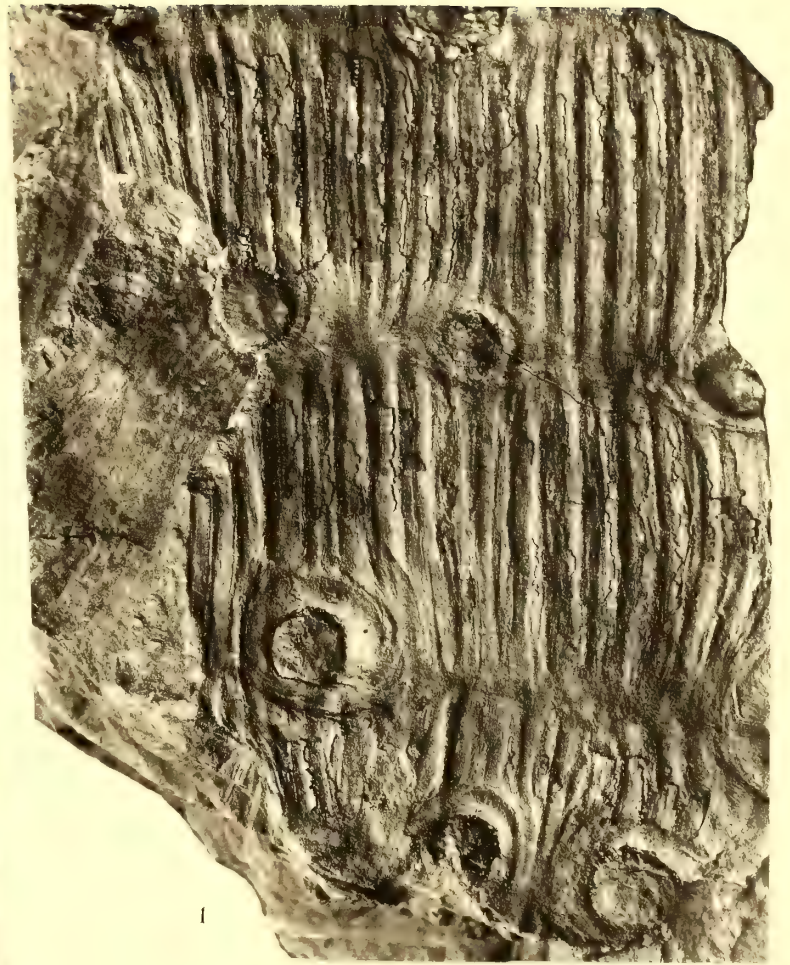


2

C. umbellata Leach



2



1



3



2



1



3

C. spines (cf. *C. radiata* Ste. & M.)



1



2



3



4



5

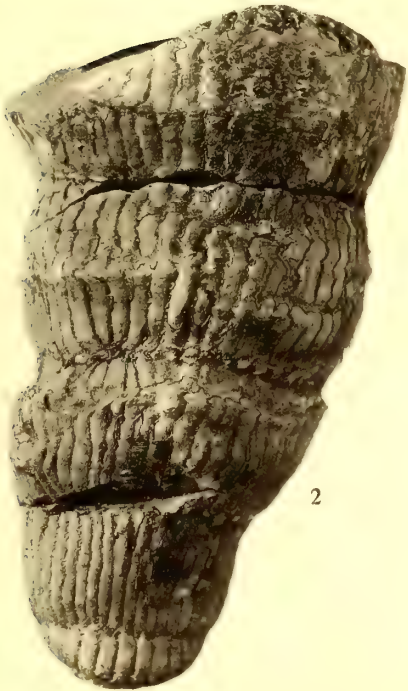
C. undulatus Linn. p. 1, 2, 3, 5.



1



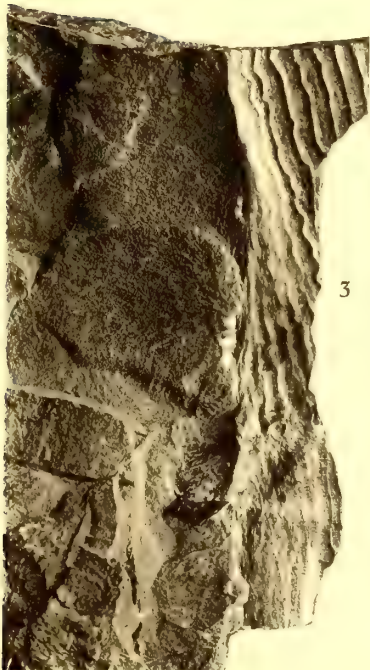
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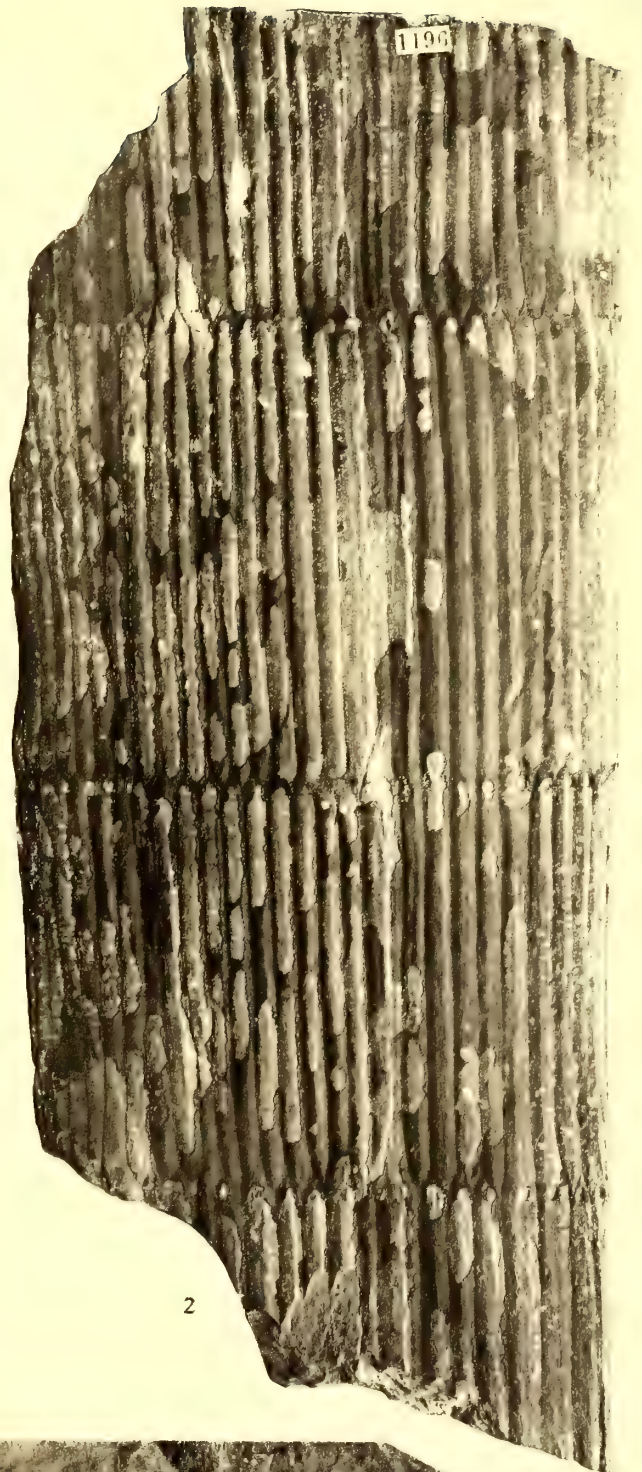
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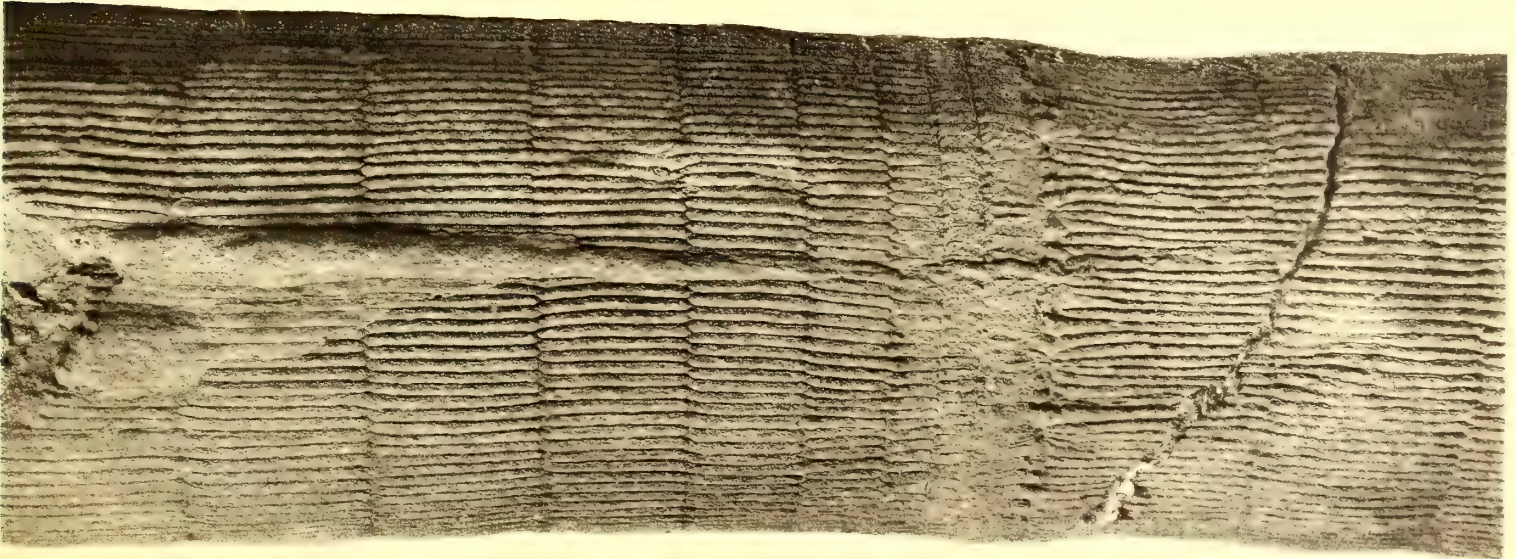
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3



C. sandulatus Stenb.



1



2

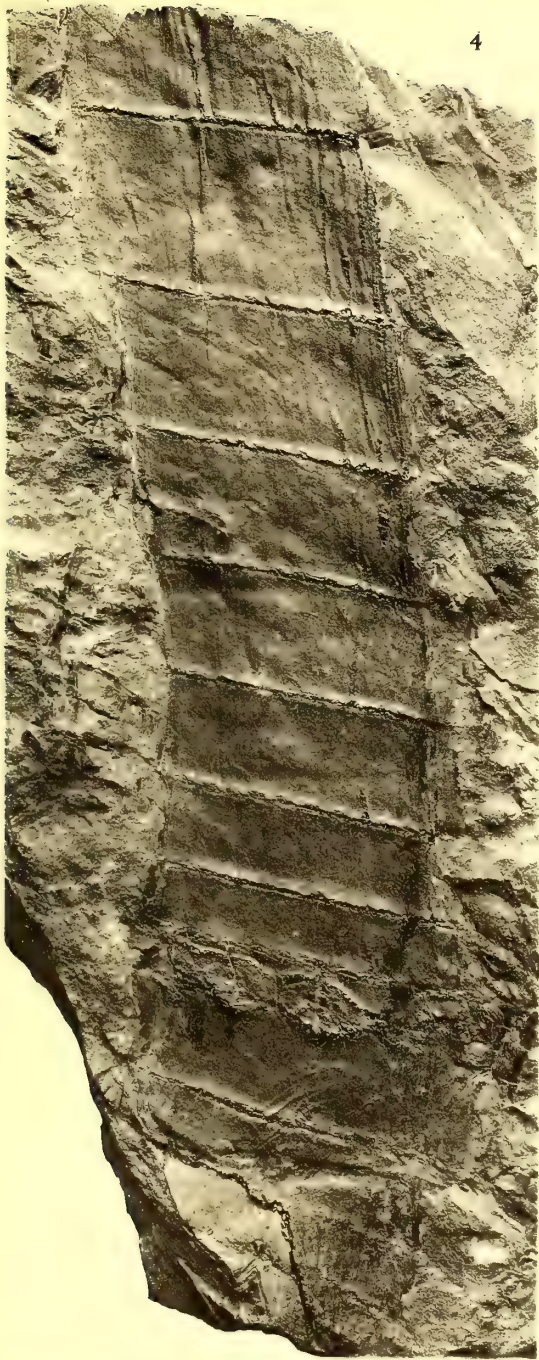


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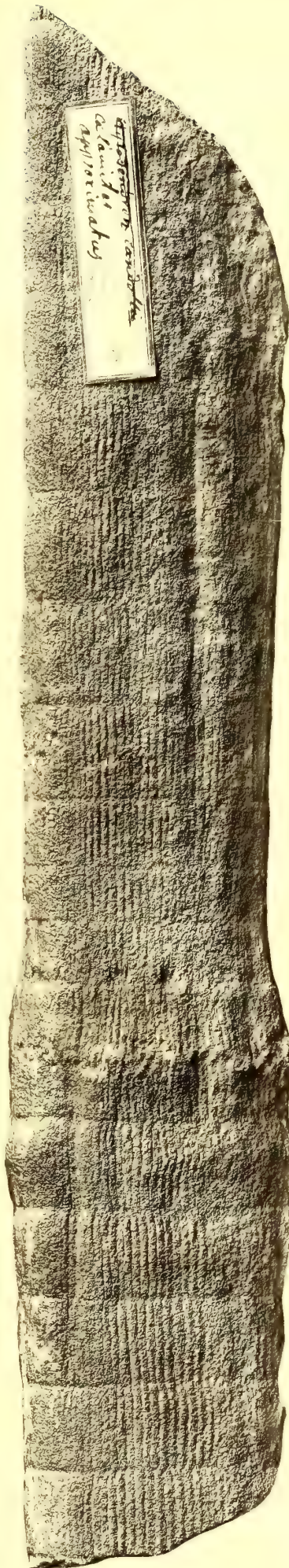


4

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4



Equisetum canadense
Apollonia (L.)

1

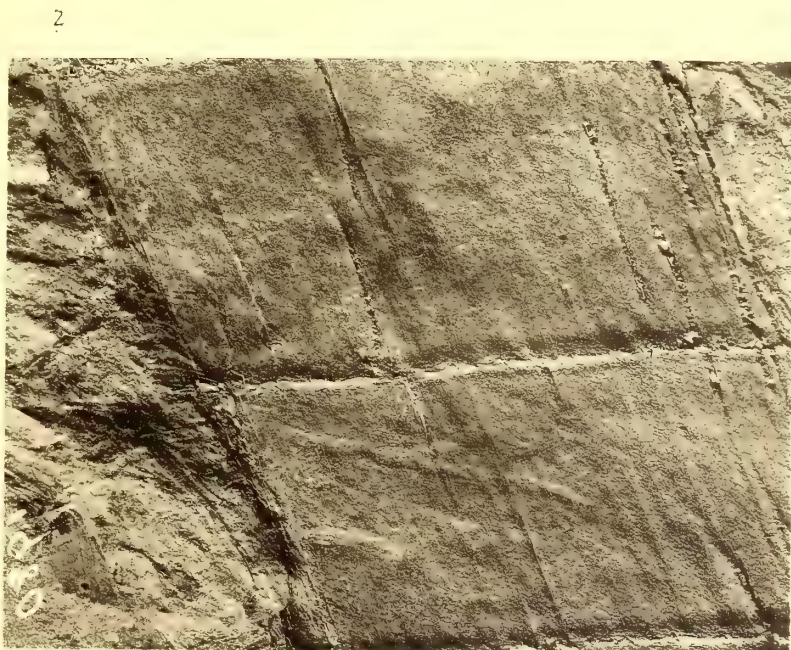
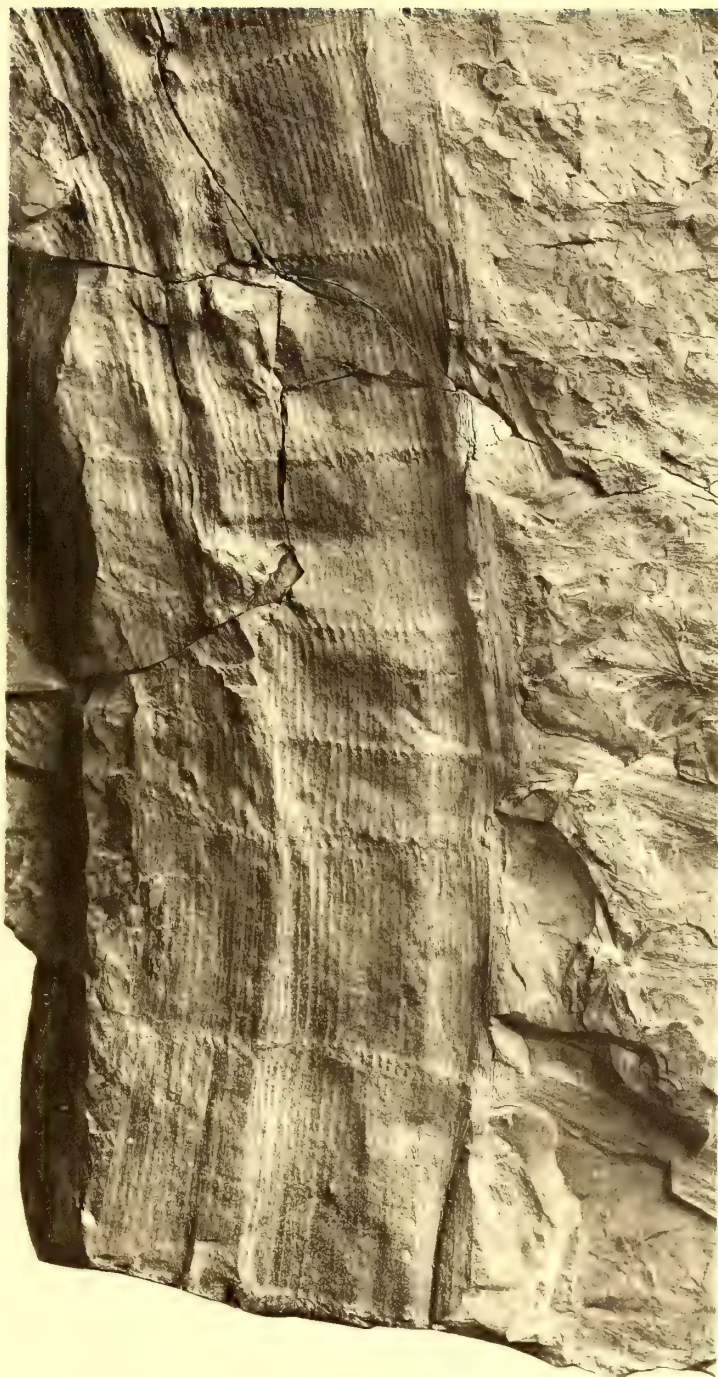
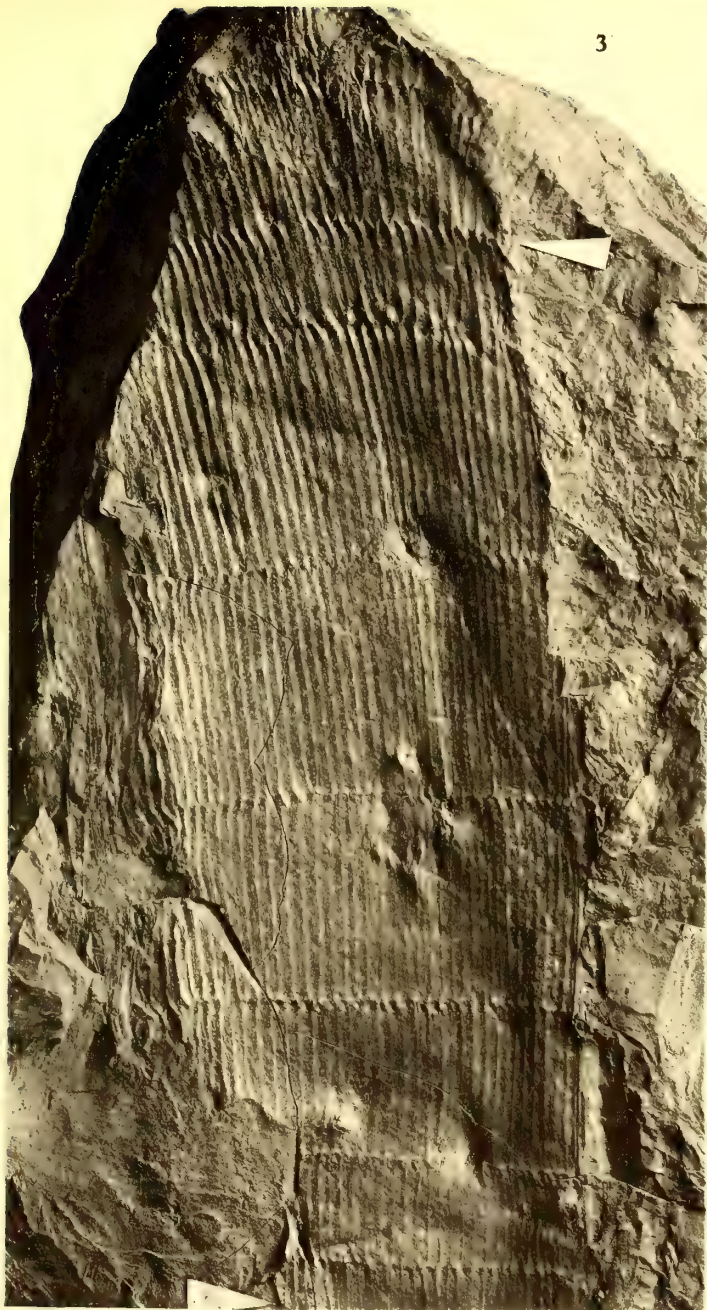


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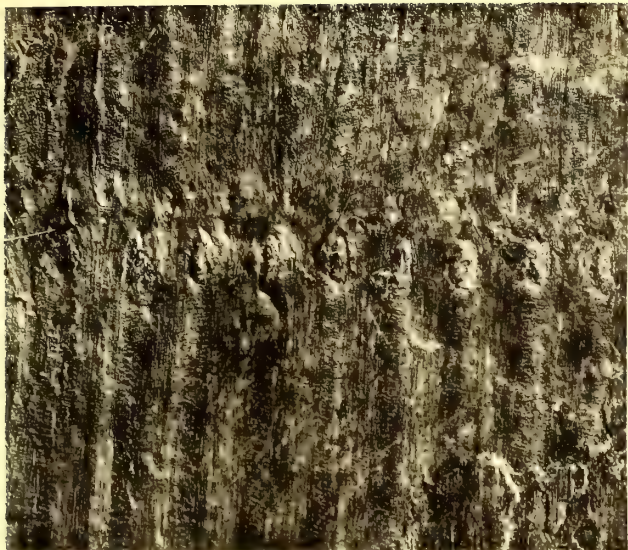


3

C. unguiculatus L.



Phyllanthus



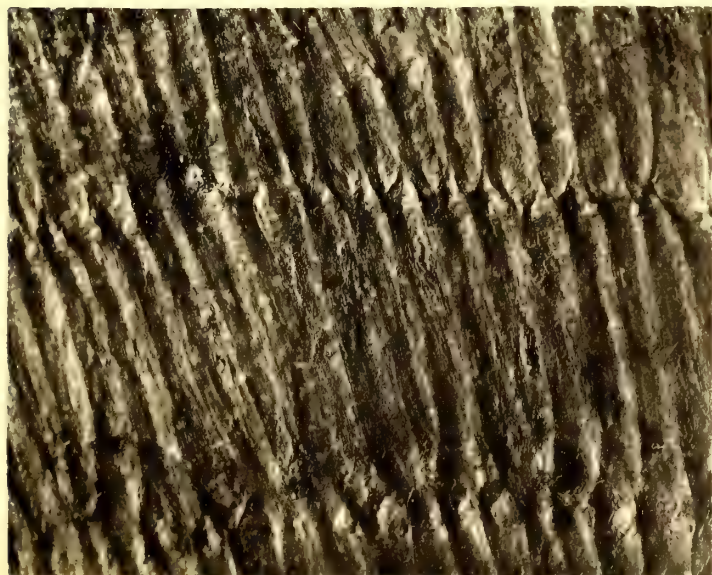
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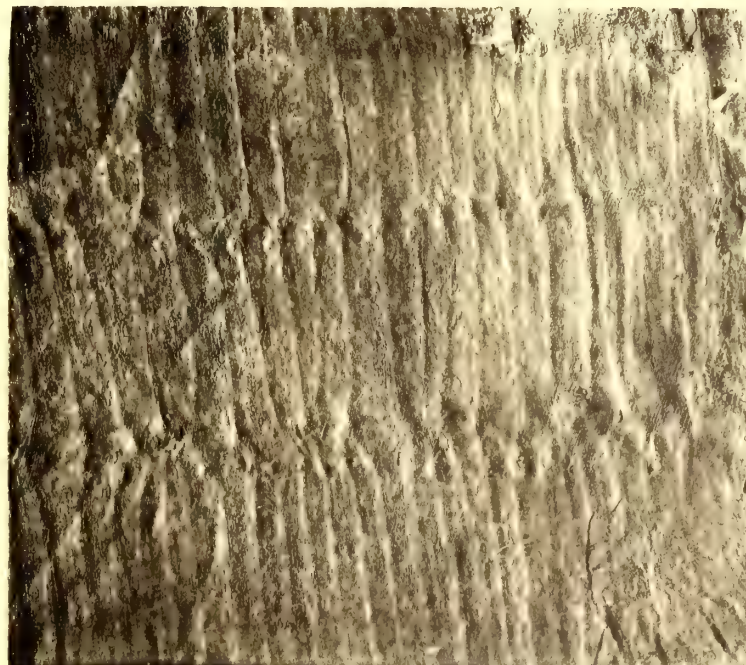
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4



1

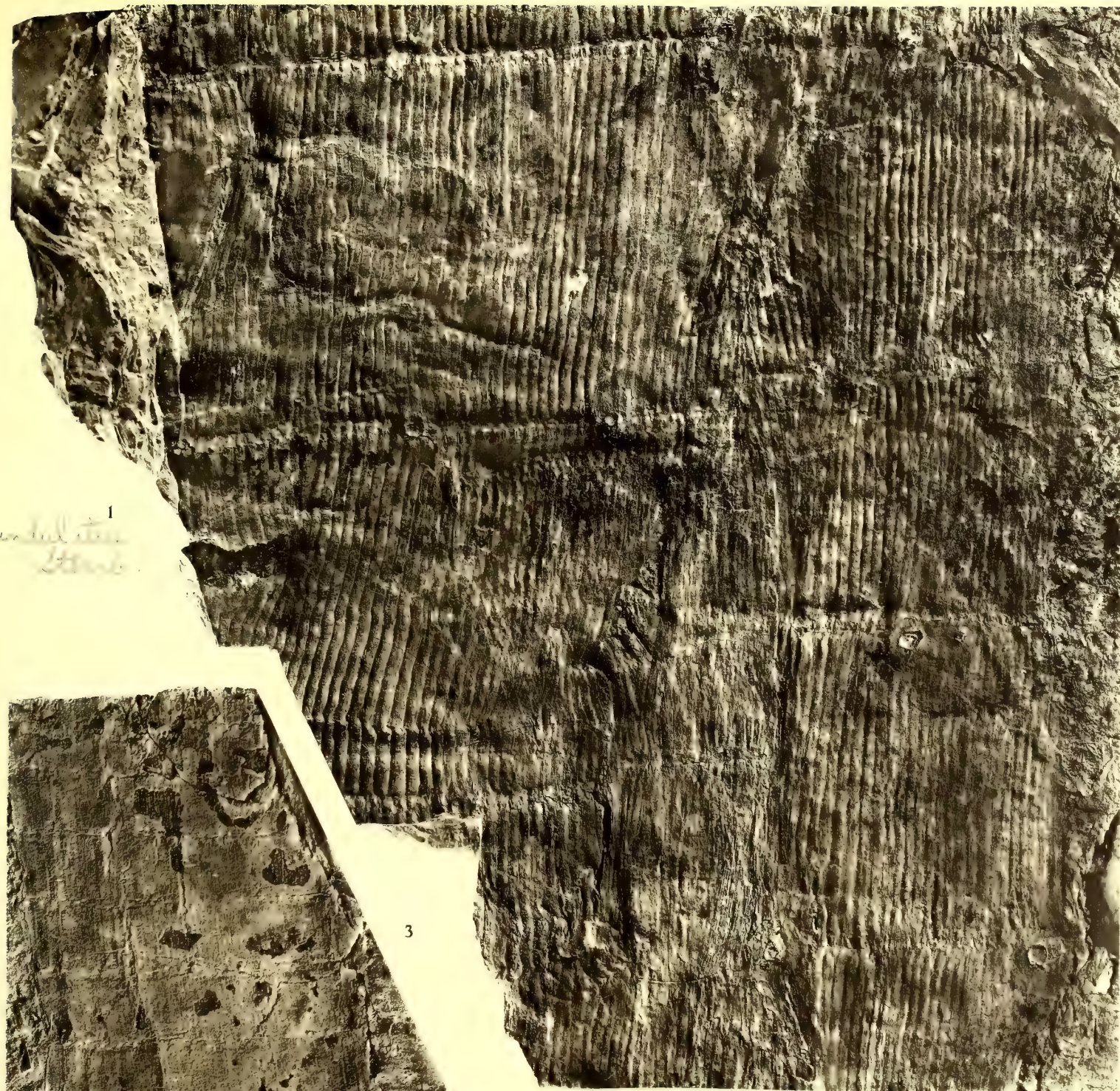


2

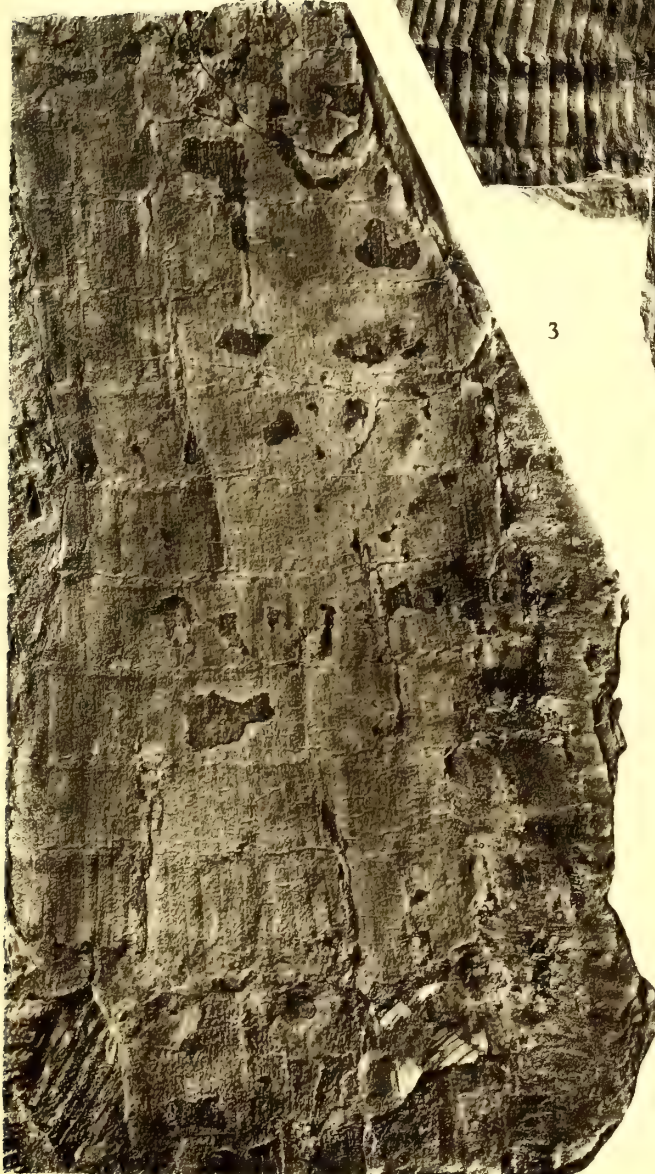
C. ...



C. undulata
Linn.



3



2

C. spica

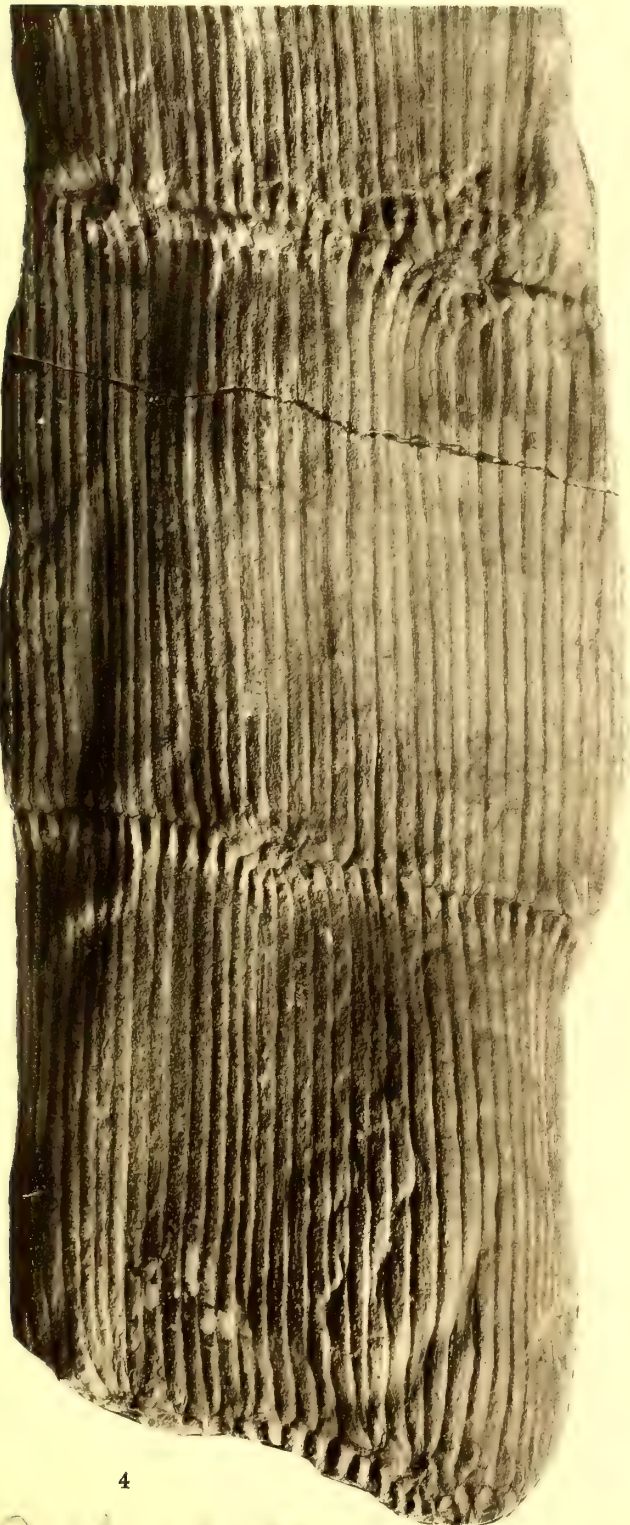
C. suchowi Zyt 2, 3.



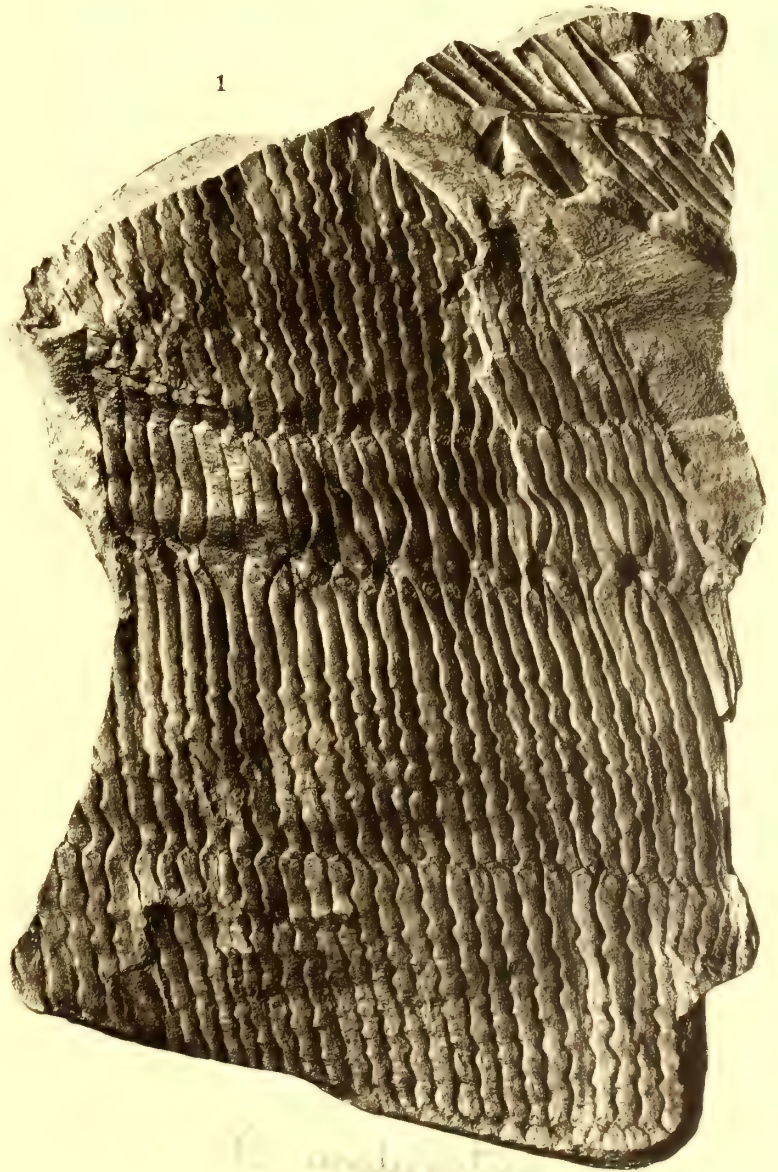
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2



4

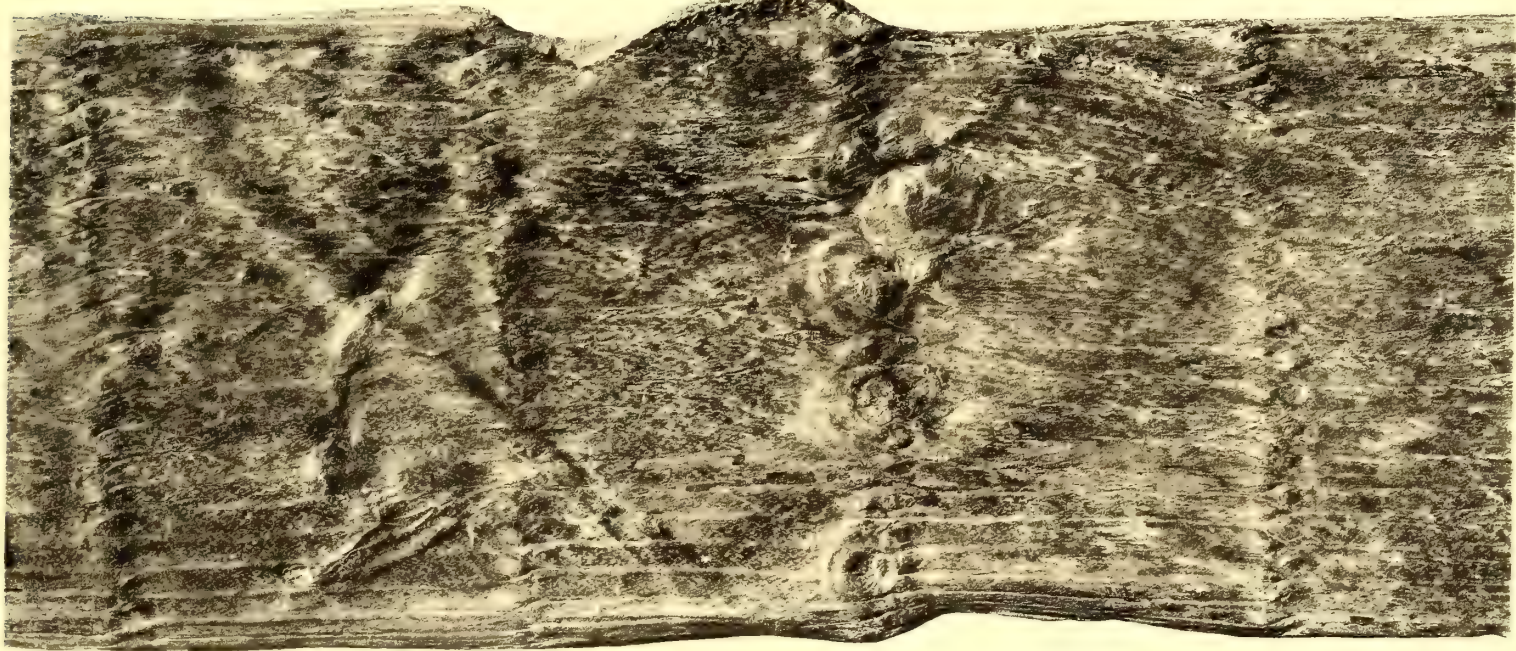


1

C. cf. ingens Linn.

C. andriaticus Linn.

C. roosei Support. 1, 2.



2 *C. roosei*
3

4 *C. roosei*

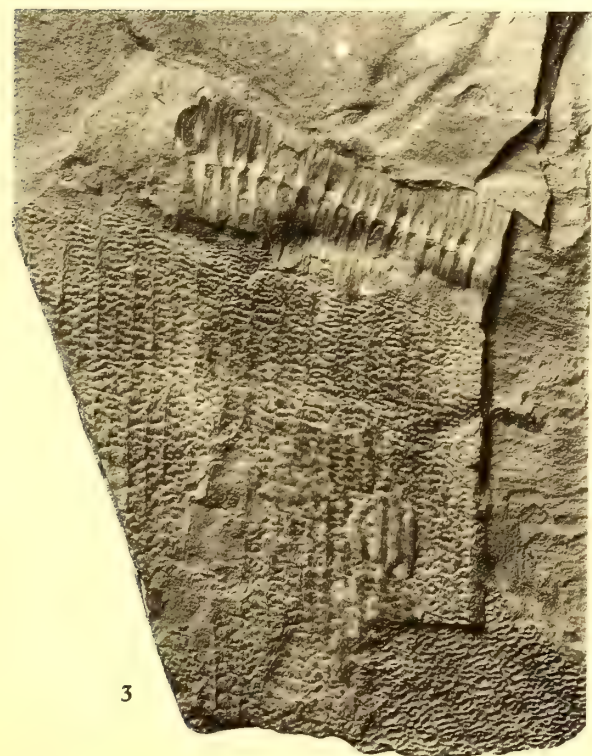
C. carinata *Stromb.*, var. *Stromb.*
Stromb. *Stromb.*



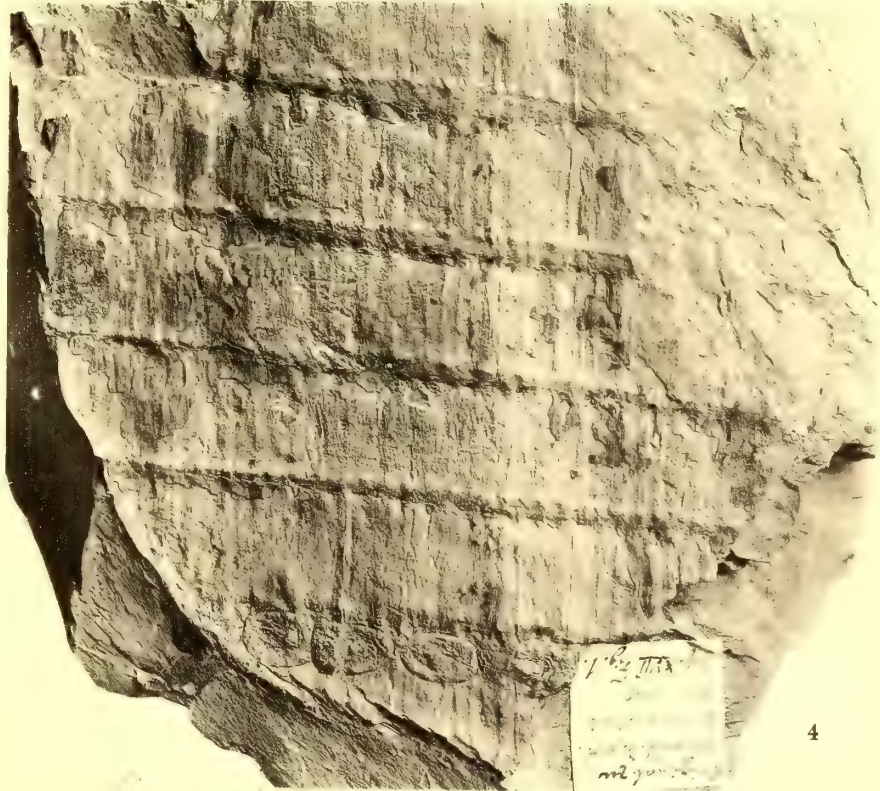
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2



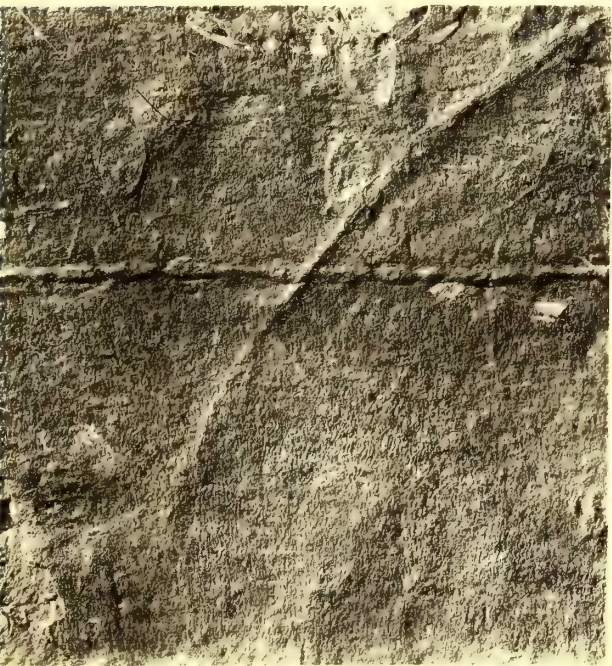
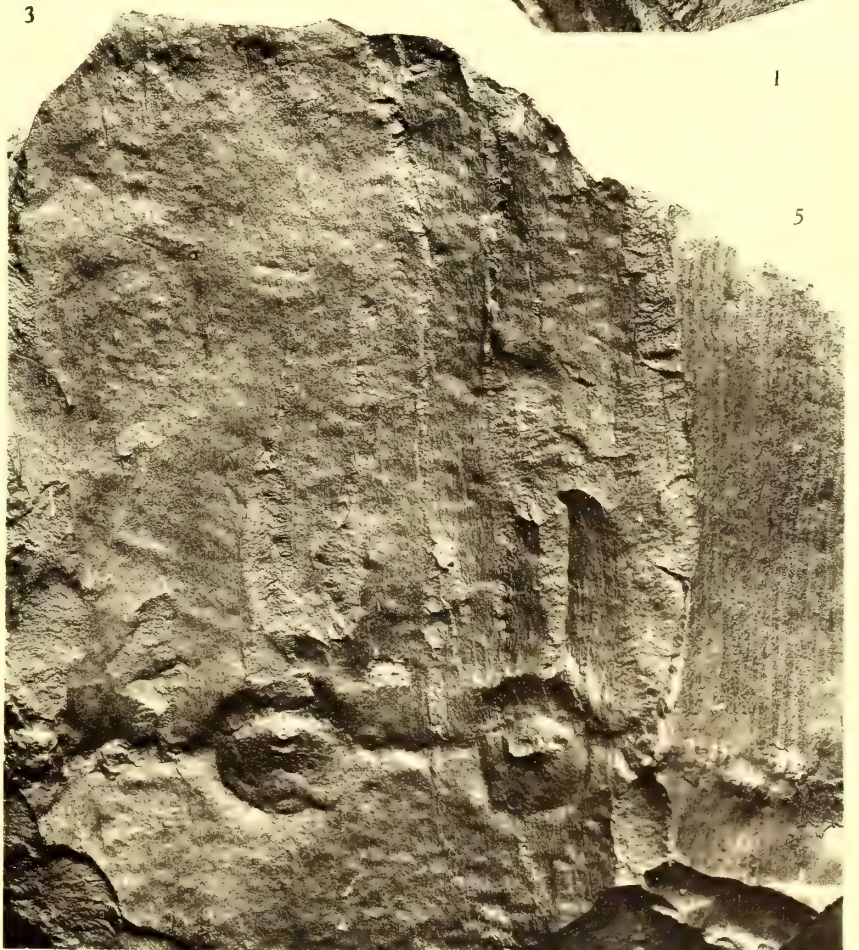
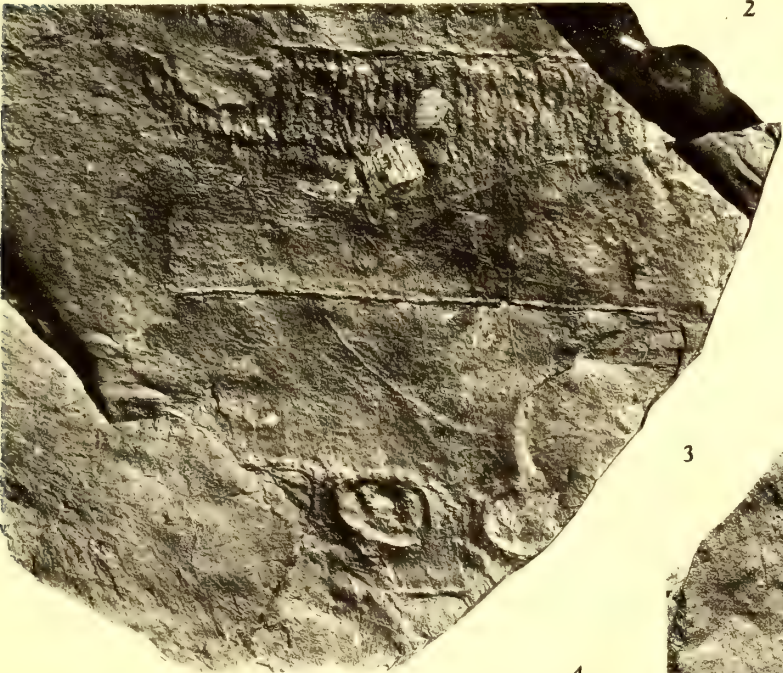
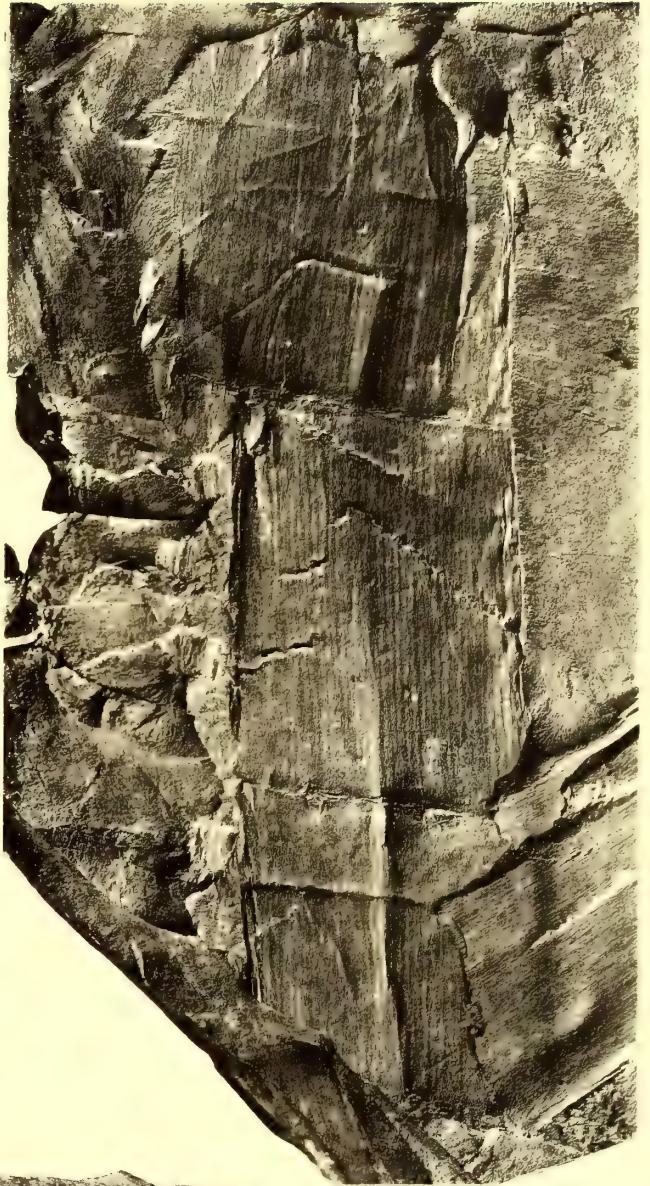
3



4

C. websteri *Stromb.*

C. semicircularis Wasser



2

3

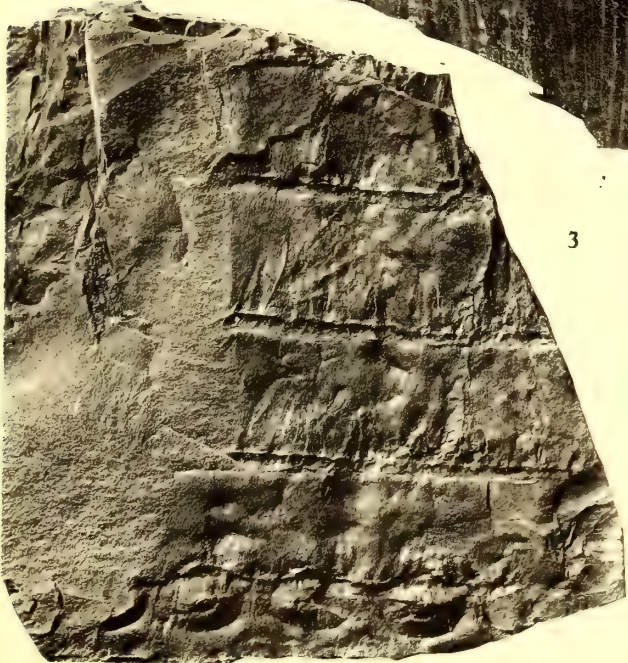
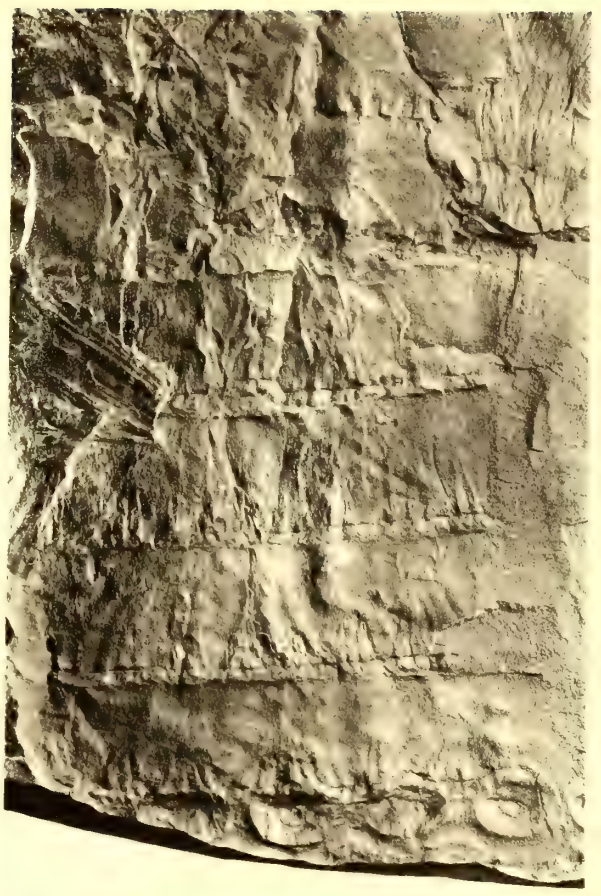
4

1

5

C. semilircularis Weiss 1, 4,

C. ... 2, 3, 5,



1110

2

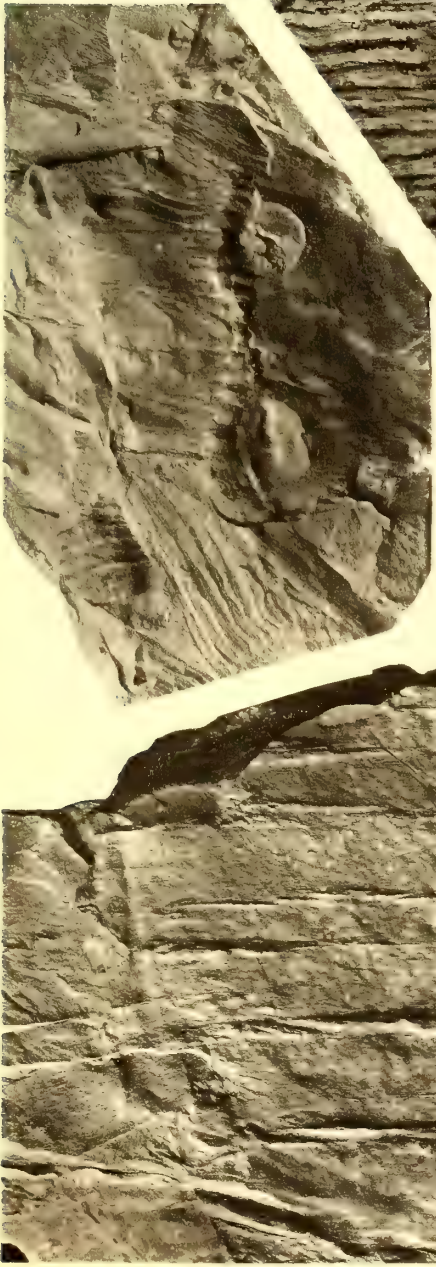
1

4

3

5

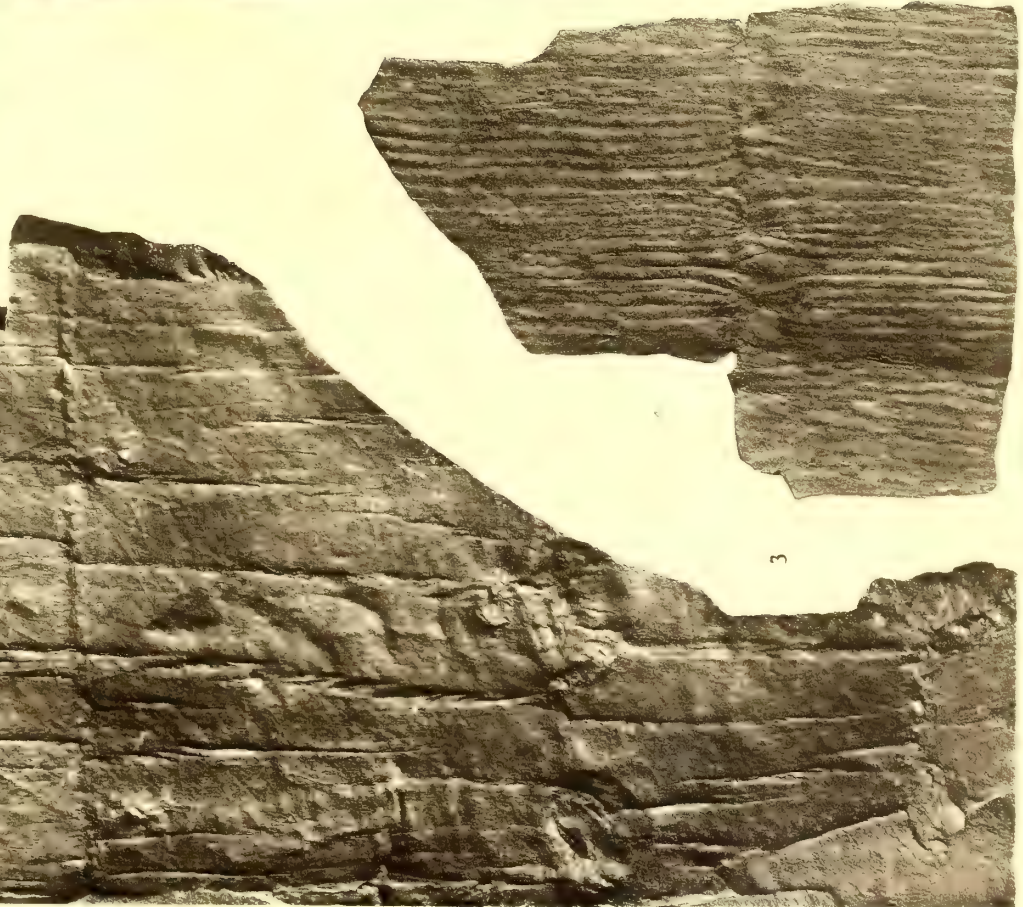
C. Almonia Cuv. (nom. n. sp.)



1

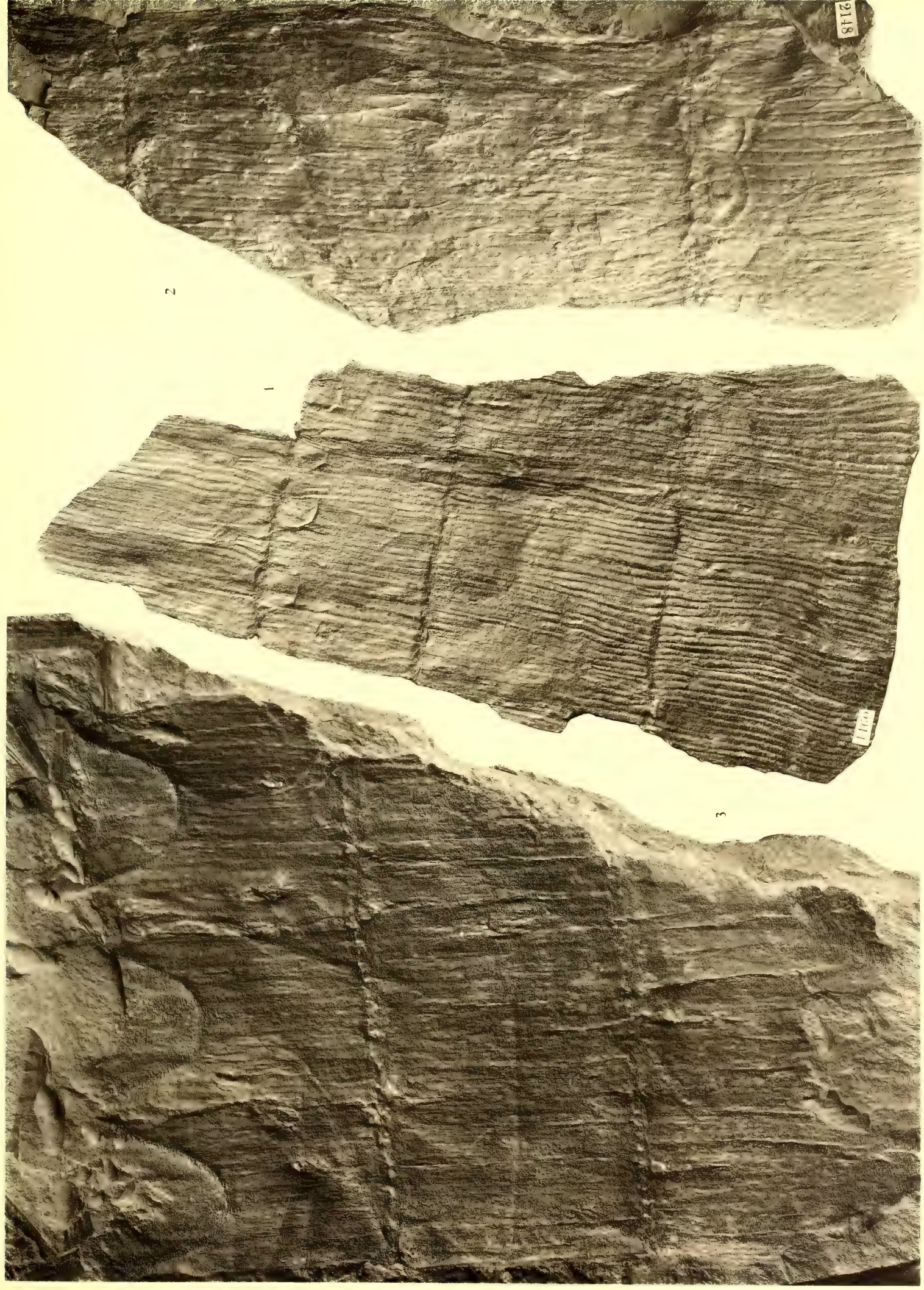


Almonia Cuv. (nom. n. sp.)



2

E. semicircularis Weiss.



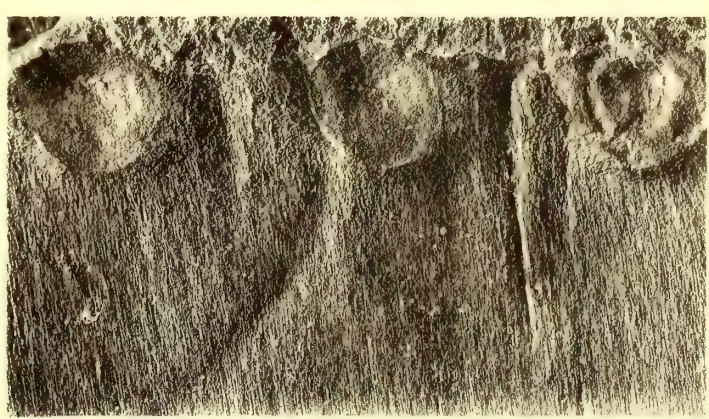
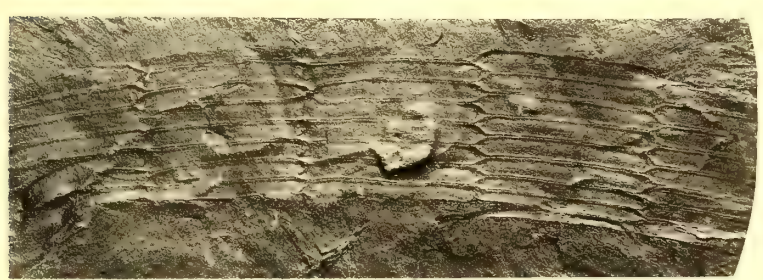
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C. semicircularis Weiss, 2, 3, 4, 5, 6.

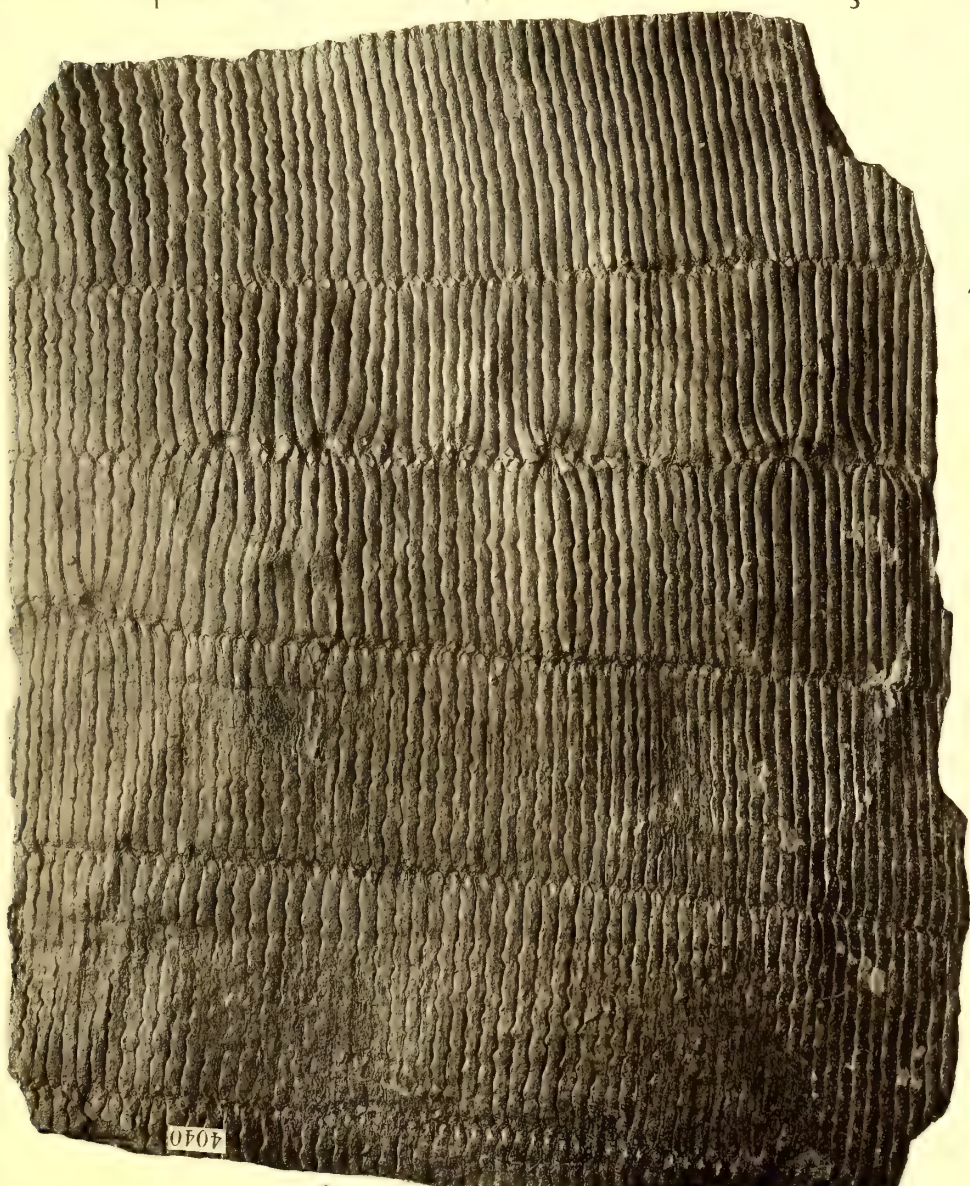


2 5

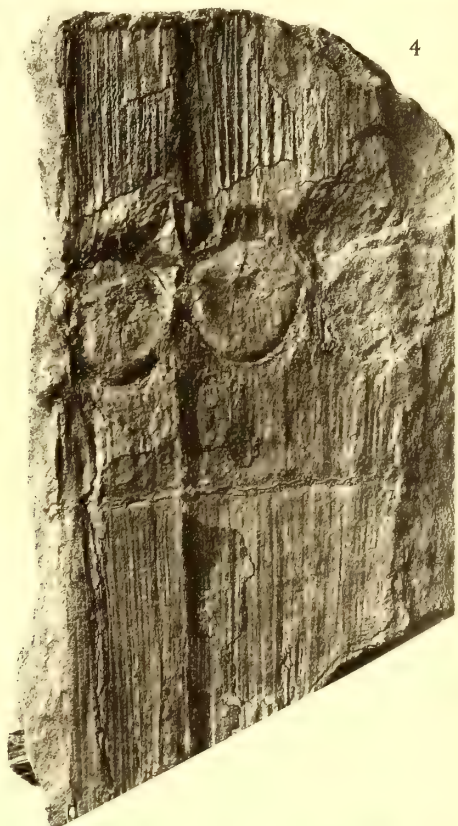


3

C. semicircularis Koepf.



7



4

6



C. semicircularis Sterb.

0107



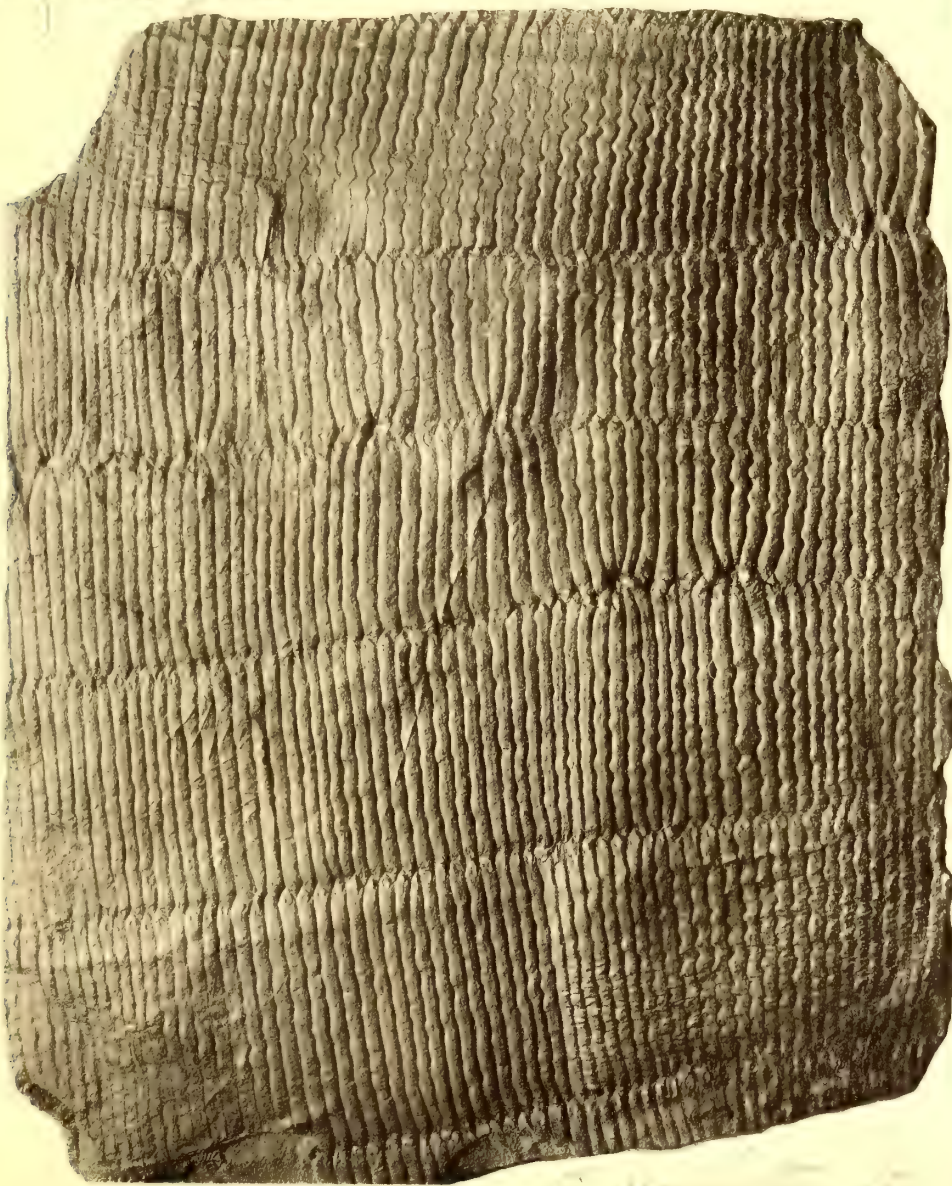
3



2

*Asplenium
L. v. Weis.*

C. angustata



1

C. angustata



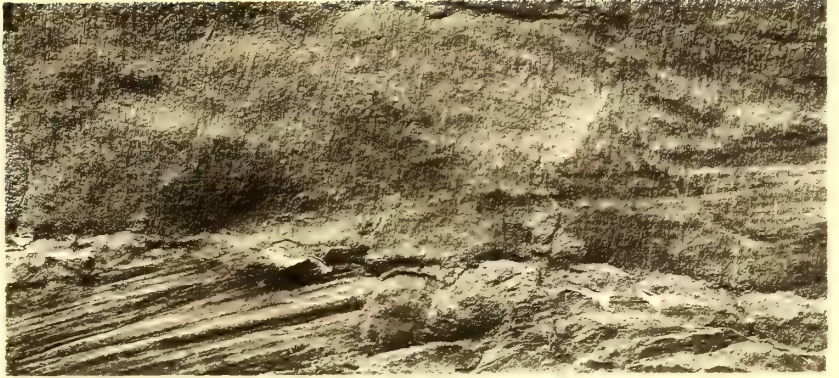
4

C. angustata

C. schubertianus Targui 207



1



7



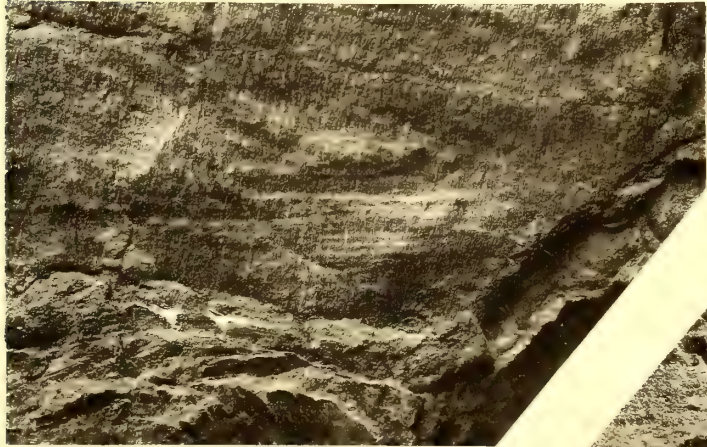
3



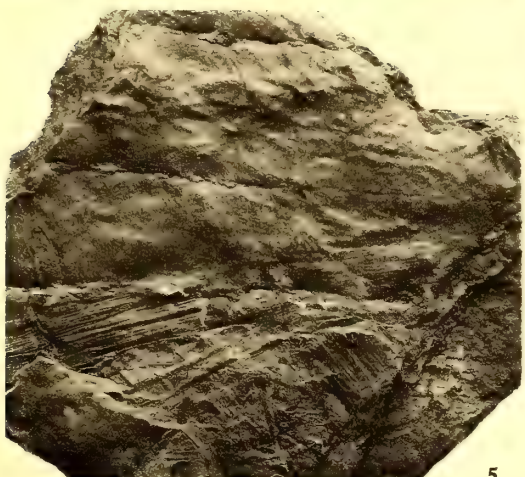
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6



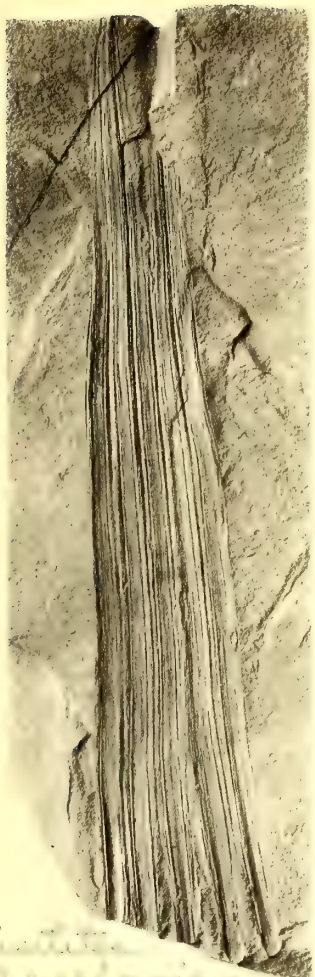
5



4

C. symmianus
Linné 500

C. distylos...
...



Equisetites
...

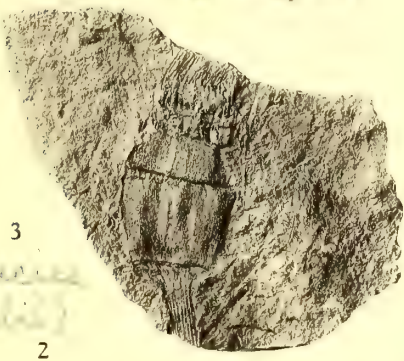
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1

Equisetites
...



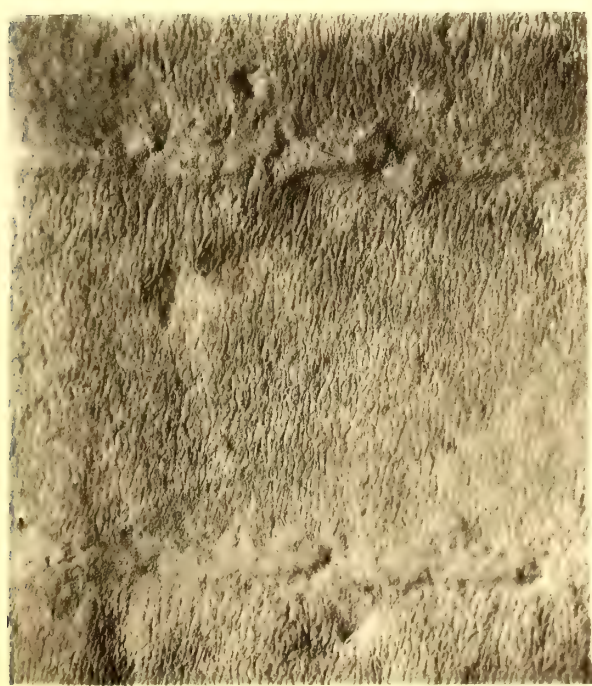
3

C. species
(Kullis)

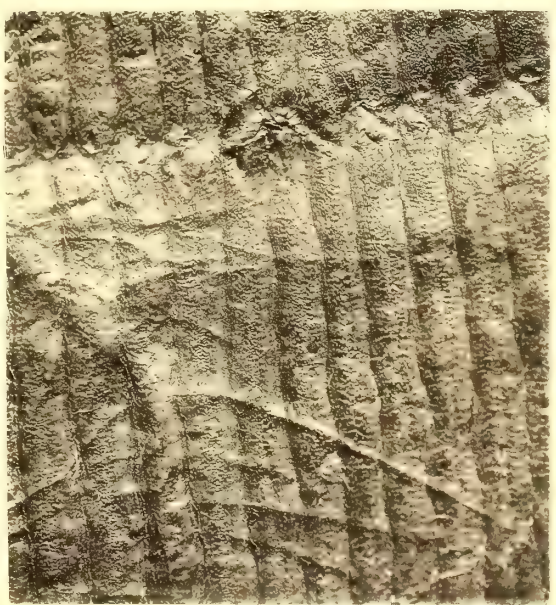
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4

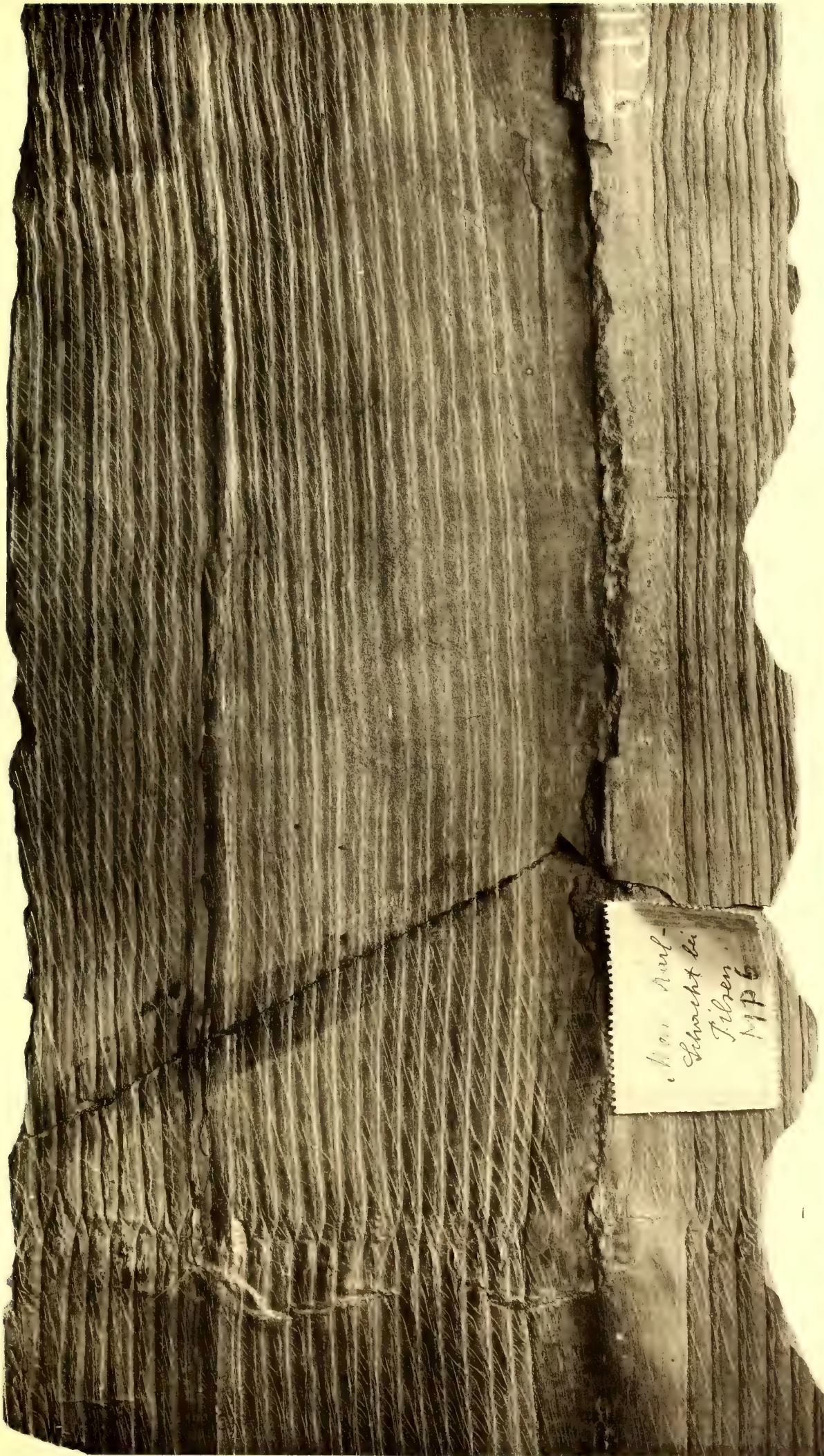
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C. species
(Kullis)



C. gypsoptera Lott.



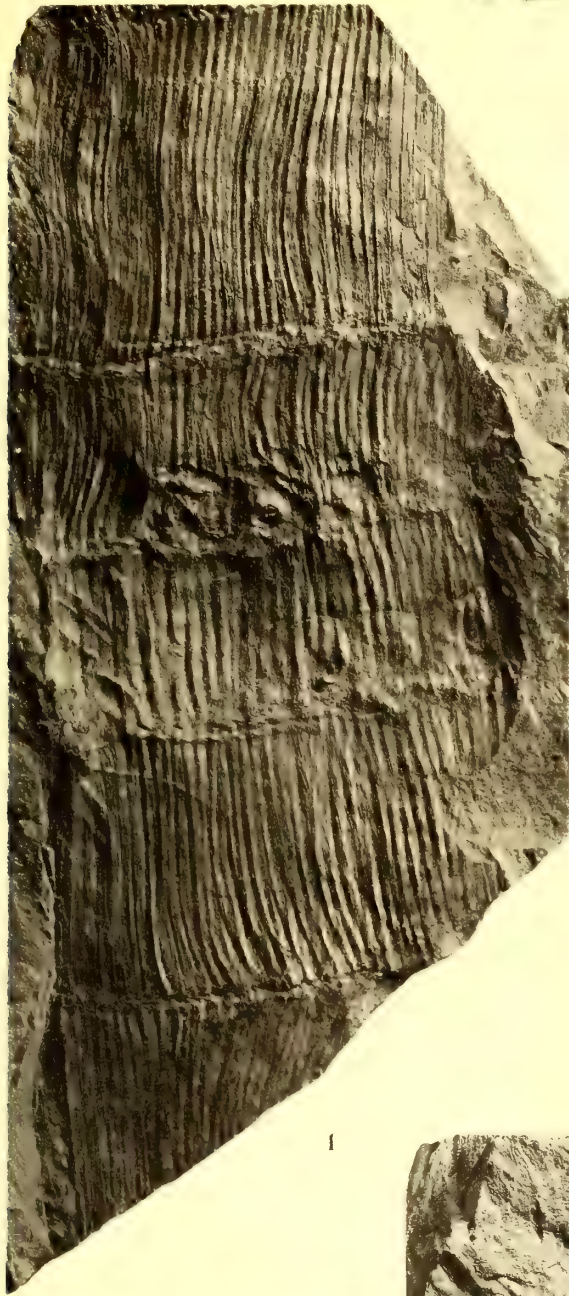
1001. Auel-
Schicht bei
Filsen
MP 6



C. gypsoptera Lott.

C. species (C. verticillatus Ziller)
1. 2.

C. verticillatus L. et G.



1



3



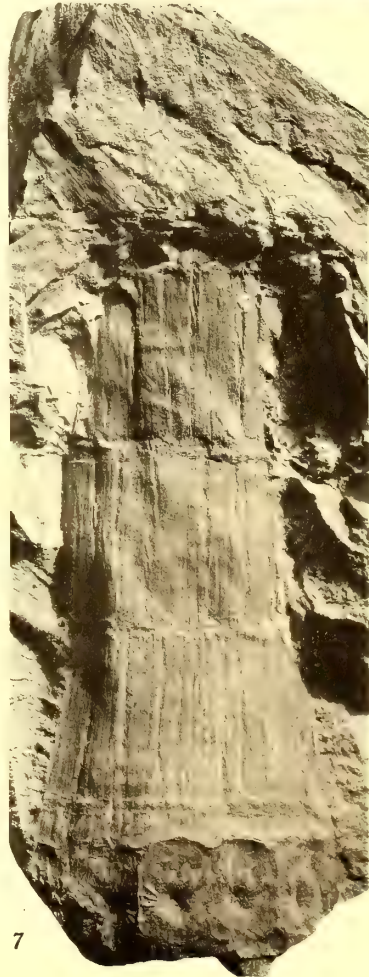
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4



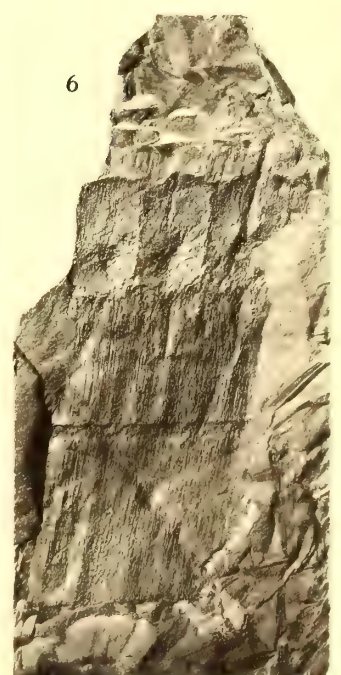
8



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6

C. nigritus Ziller



C. goepperti Stt.



1

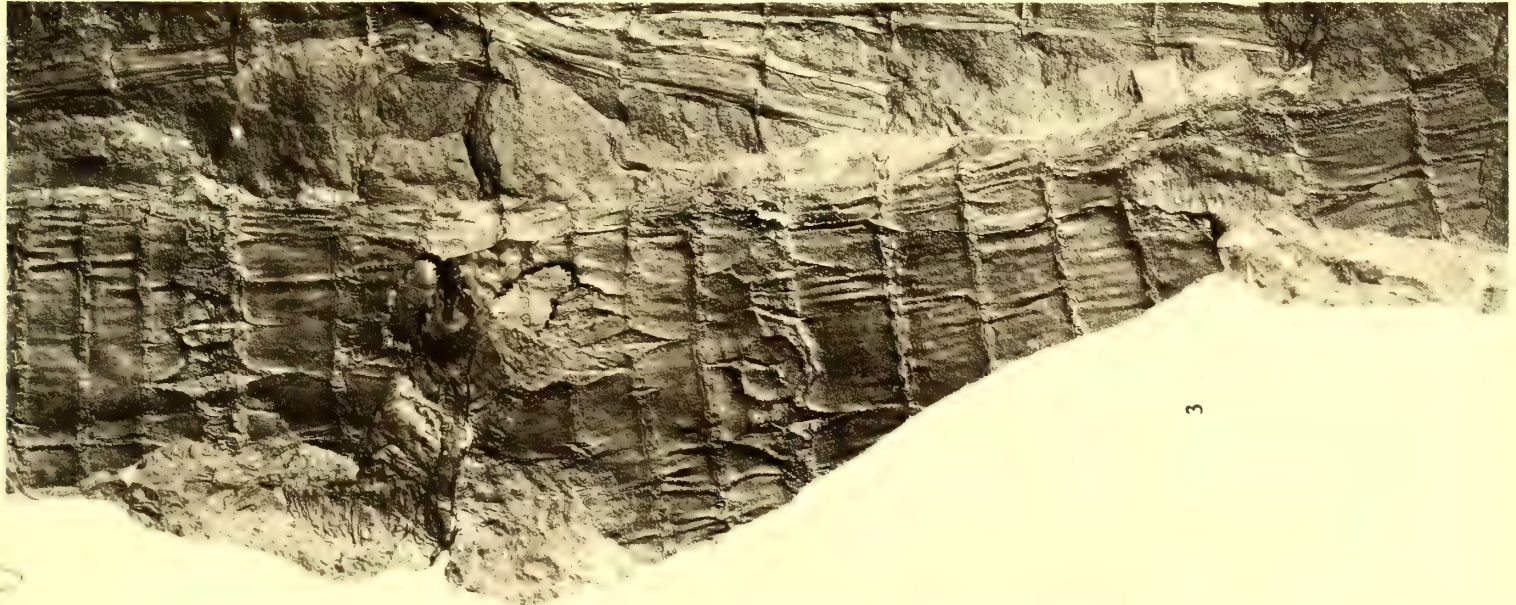
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3

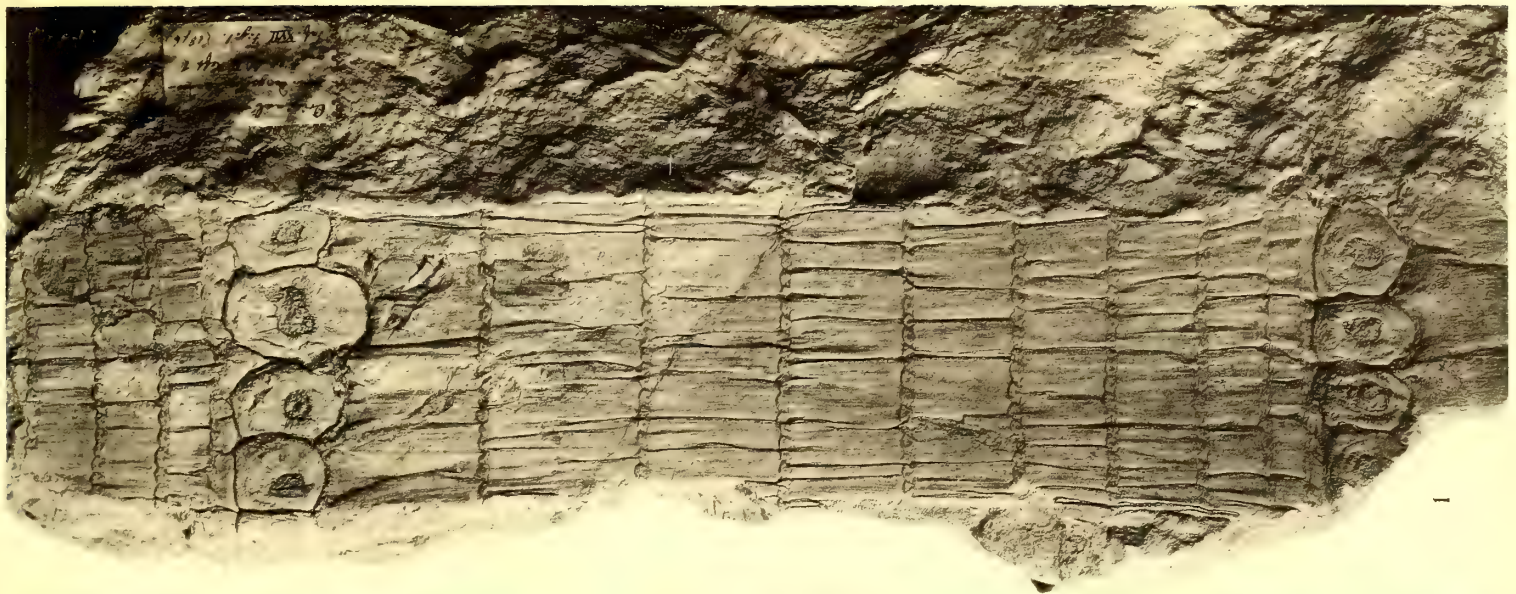
C. gruppata Ed.



2



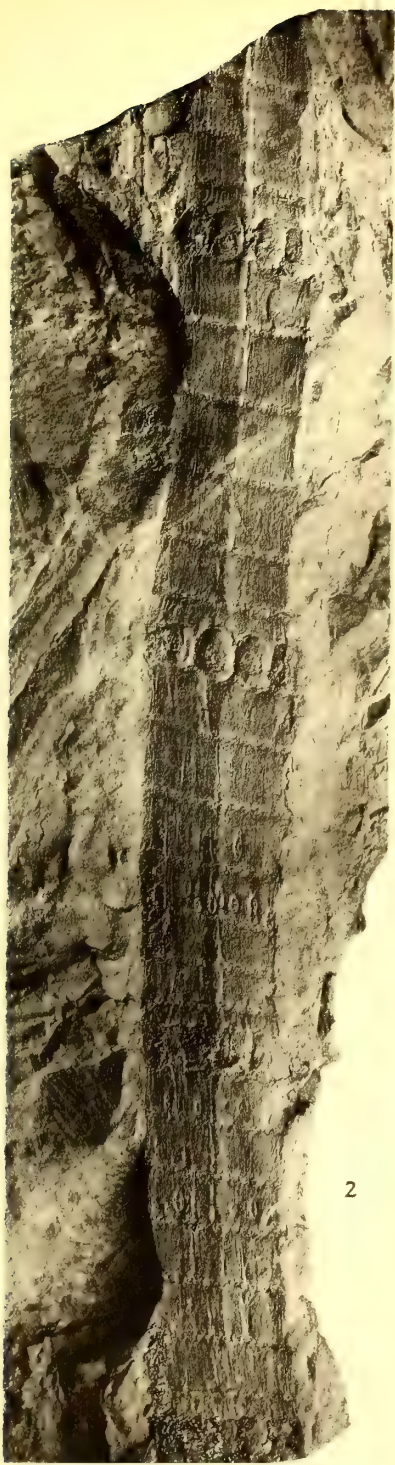
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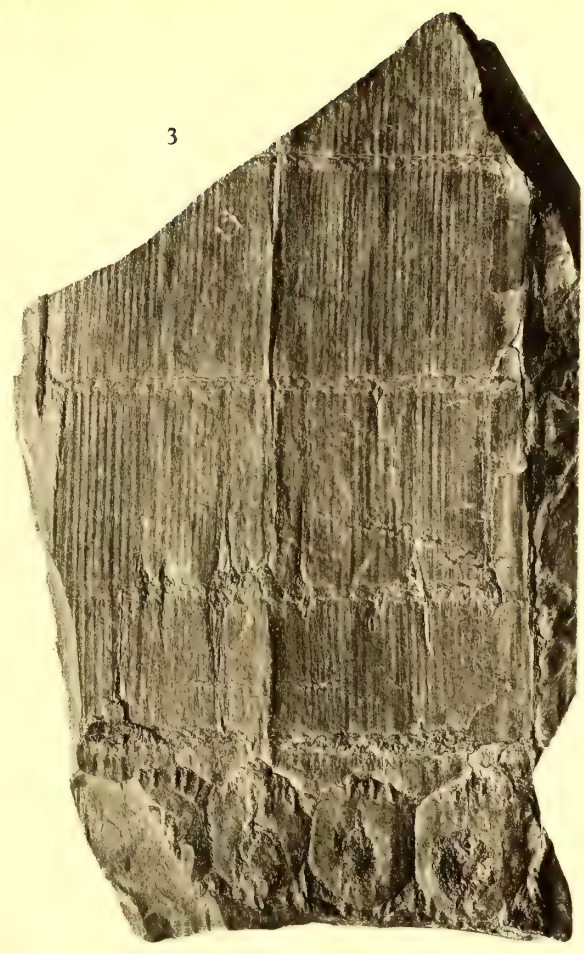
1



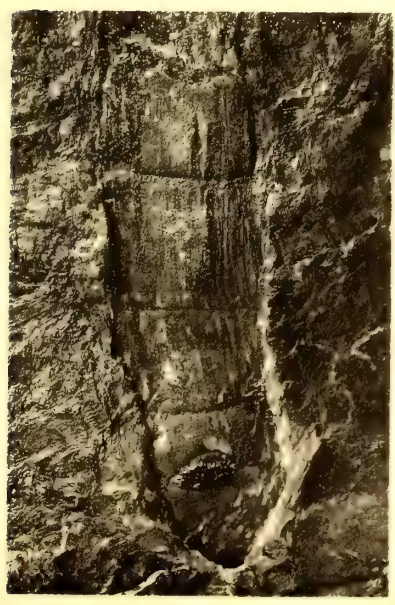
C. gypseti Pitt. → 4.



2



3



1



4

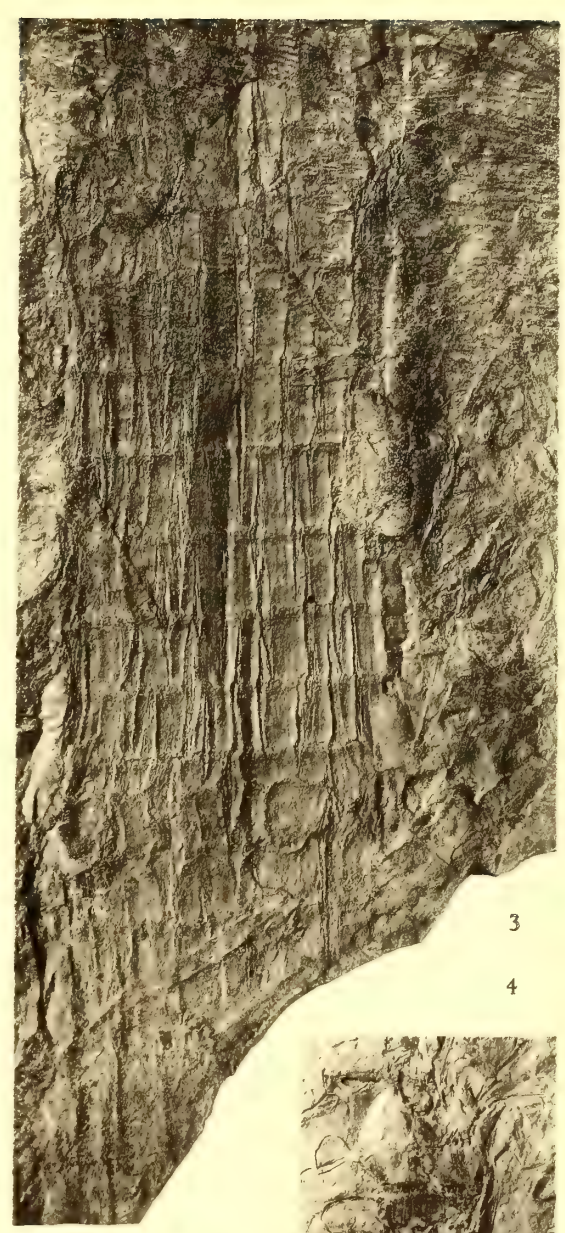
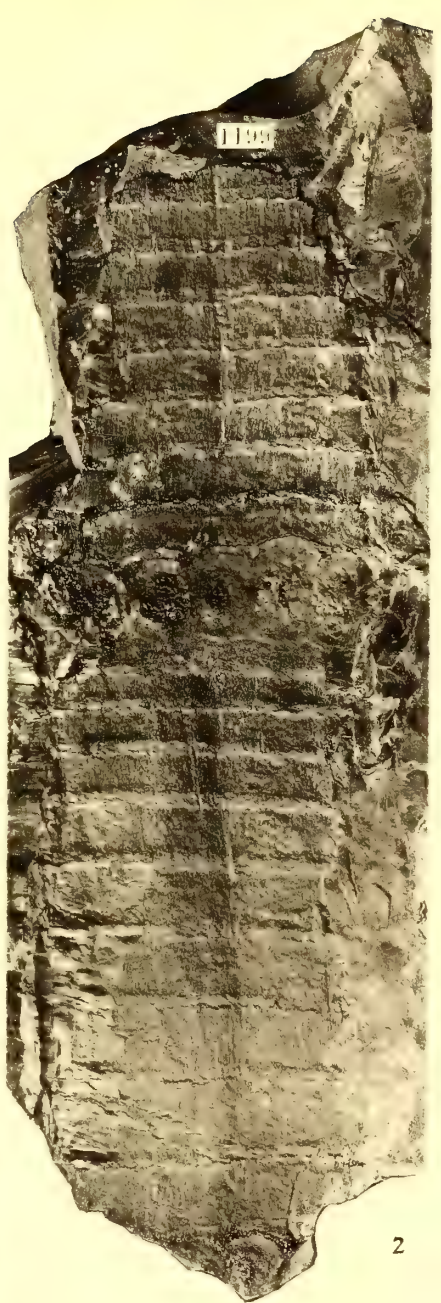


5

C. gypseti
(*C. massinonensis* Pitt.)

C. goepperti 1-4.

? *C. ...* 5-6.



? *C. sackei* Star. 1-3.

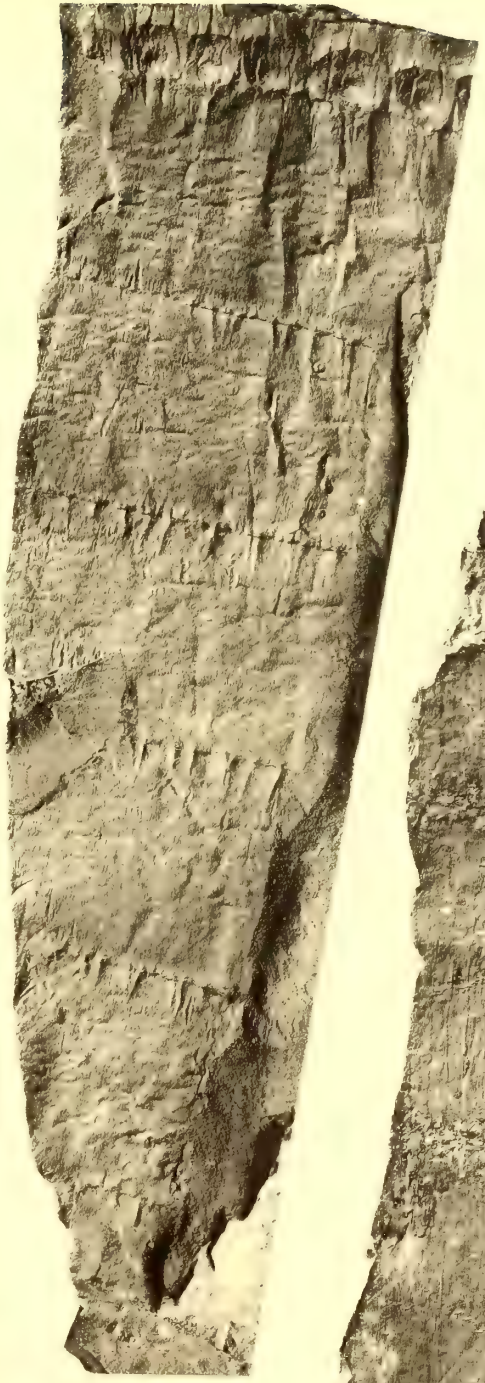
C. sackei Star. 4-7.



1



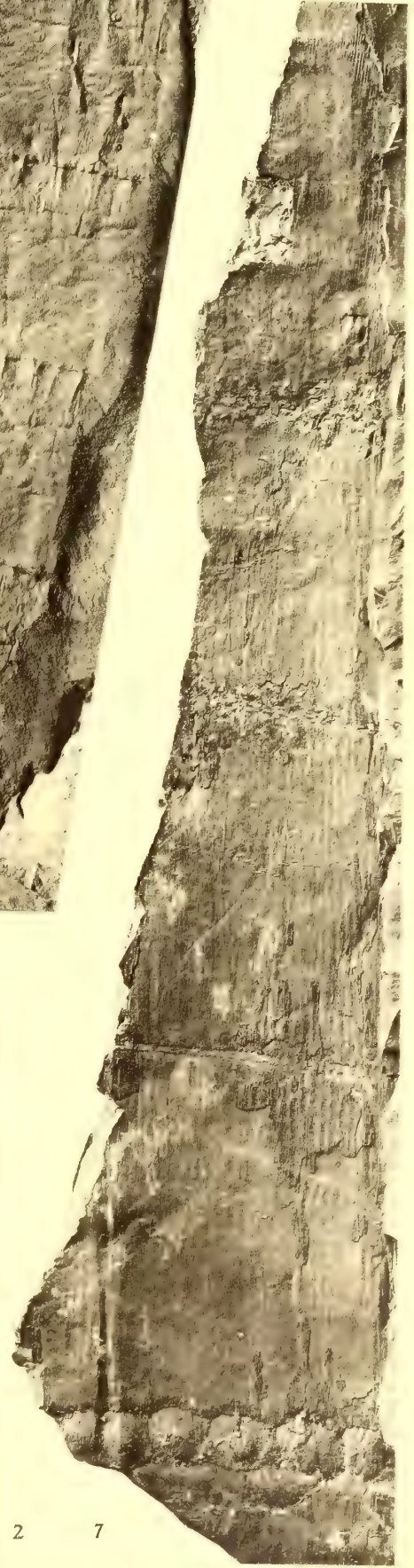
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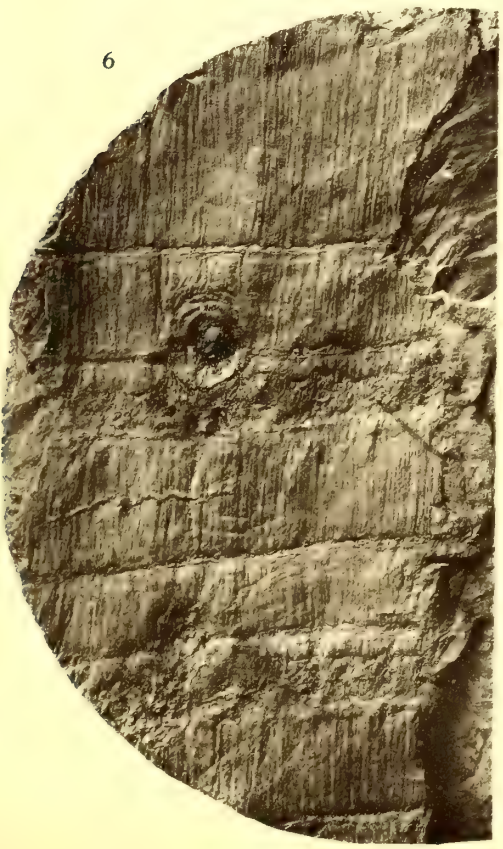
4



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2



111

4

C. Schimper
Walden



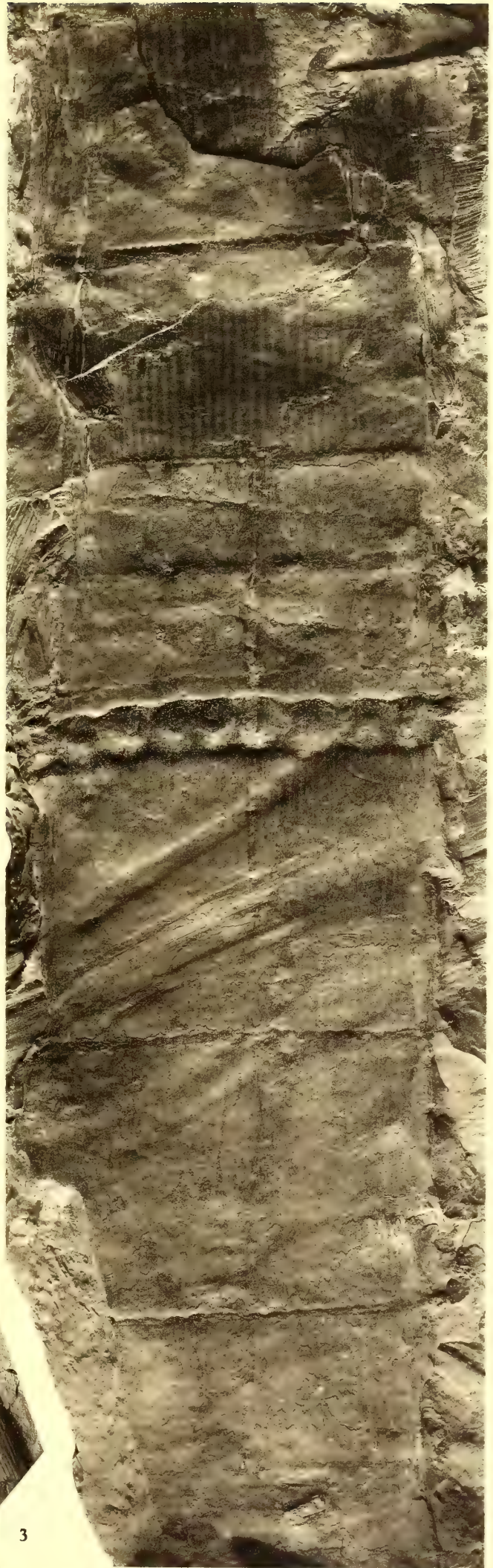
2

C. germanicus
Geopfert.

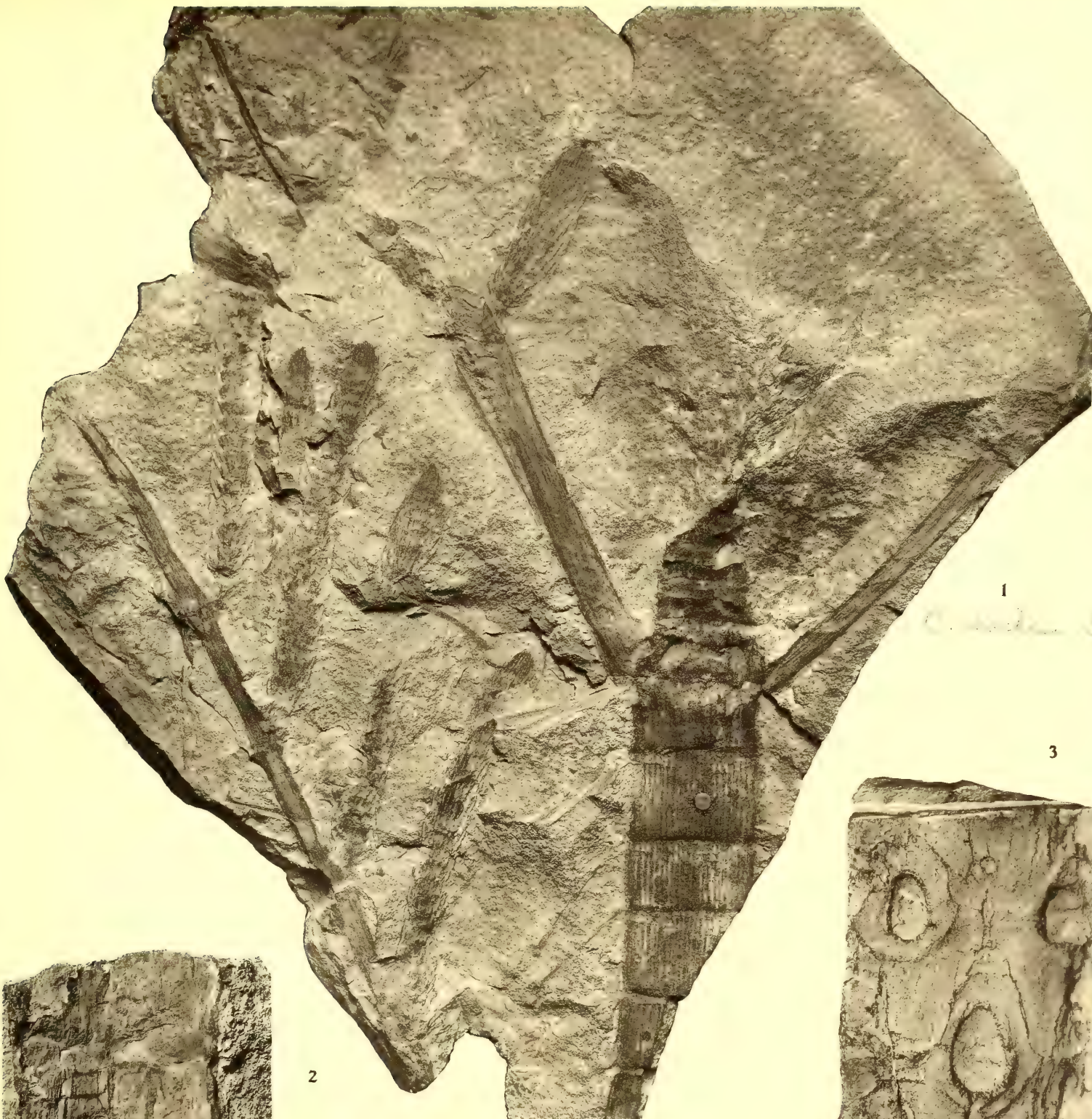


3

C. Schimper
Walden



C. Schimper
Walden



1

C. ...

3



2



4

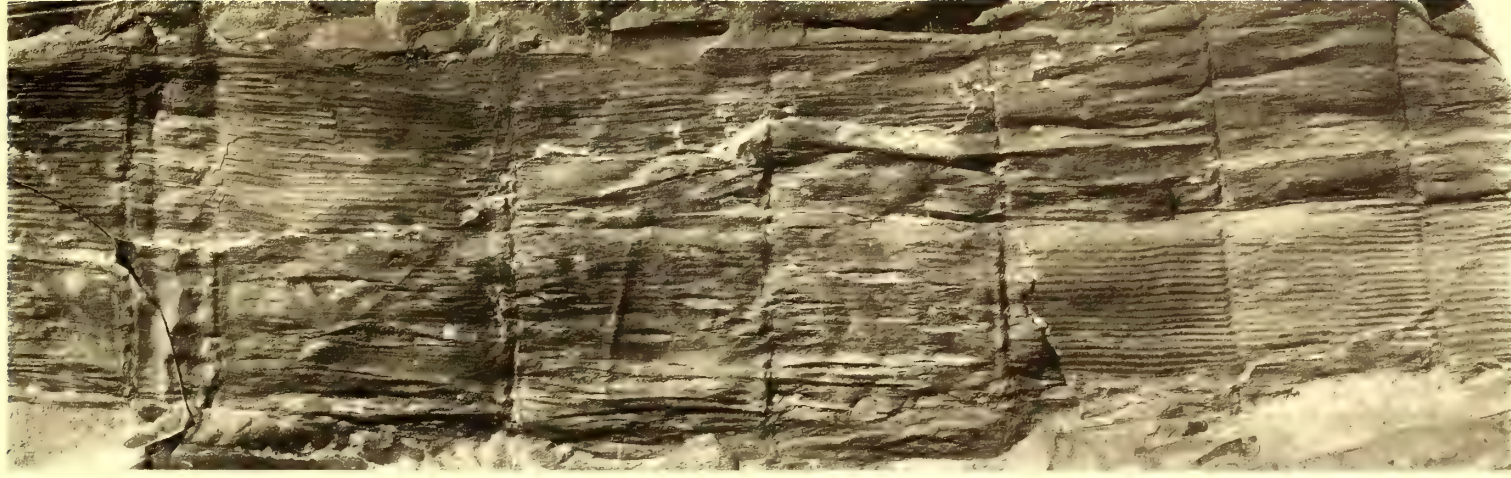


C. transversalis
Richardson et Graymire.

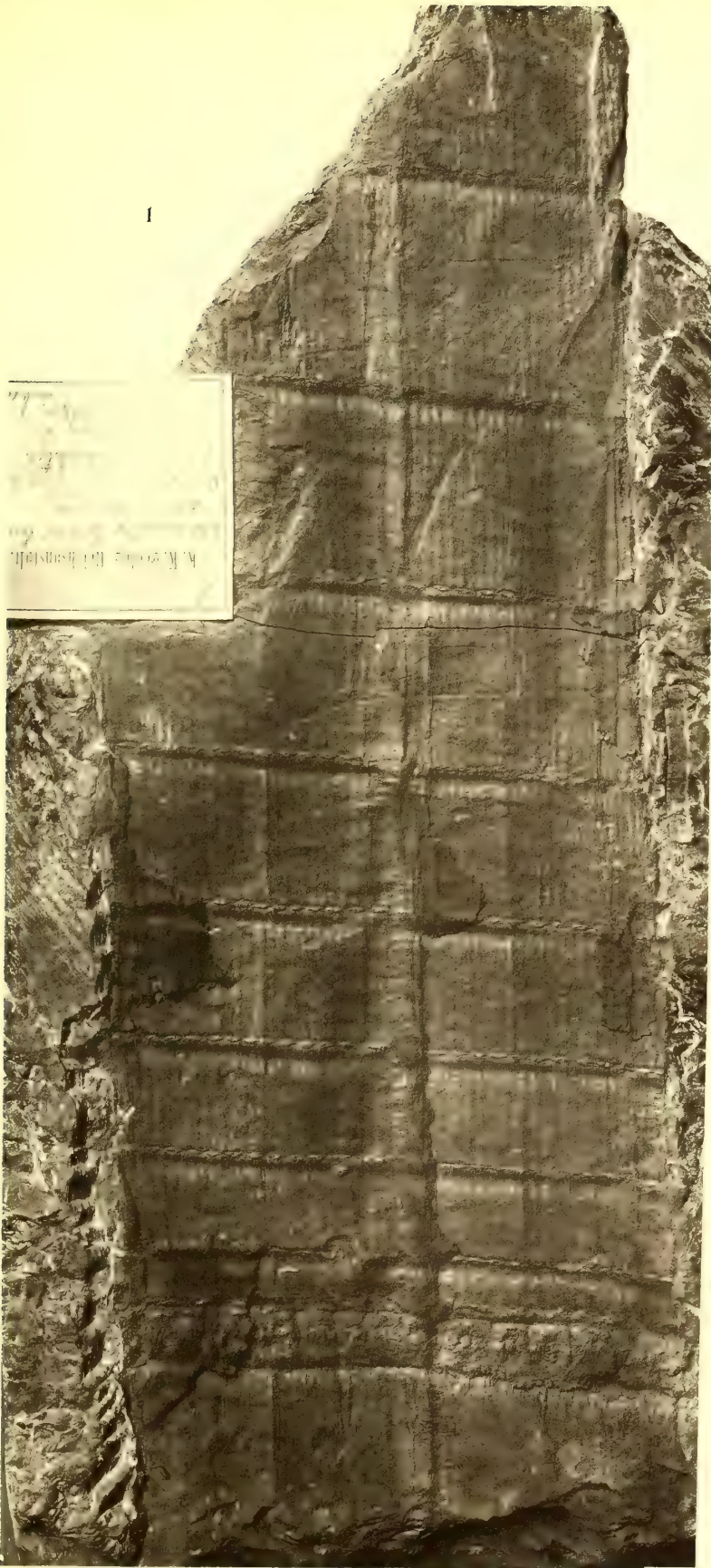
C. pseudogibbosa
Richardson et Graymire.

C. sachsi Star.

P.L. 60



C. sachai Steu. n. s.



C. sachai Steu. n. s.



2



3

C. sachseni
Steen.



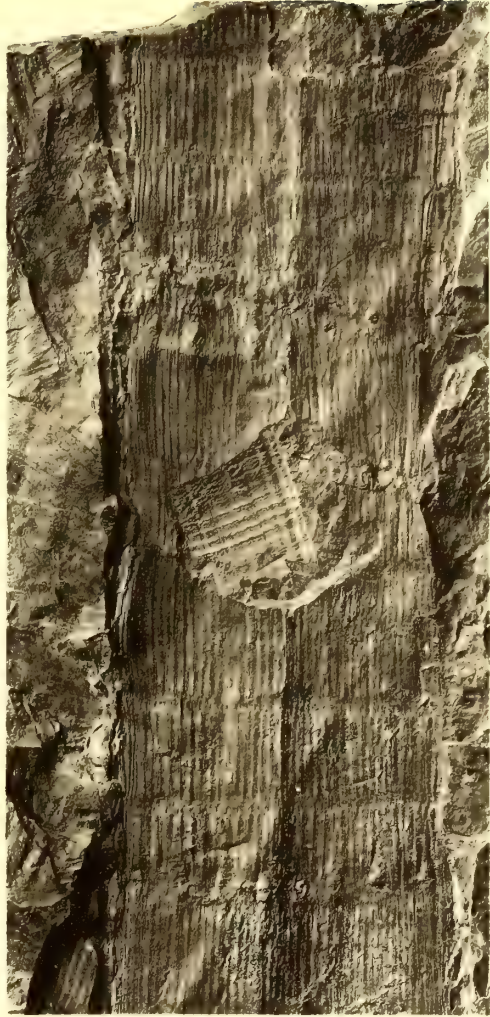
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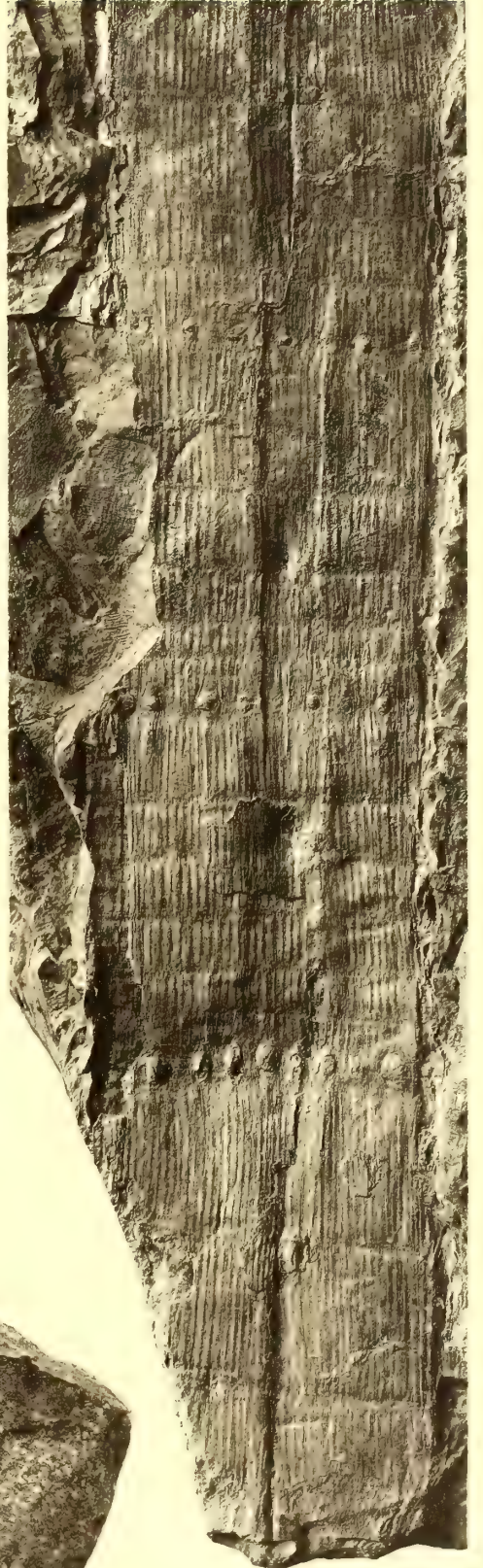
1



2



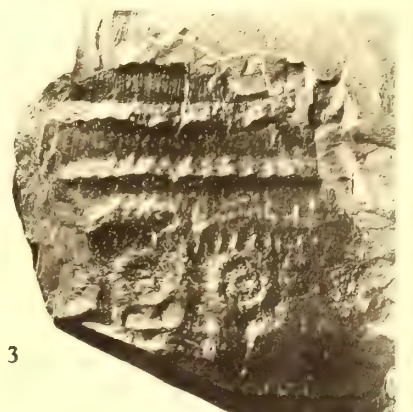
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5

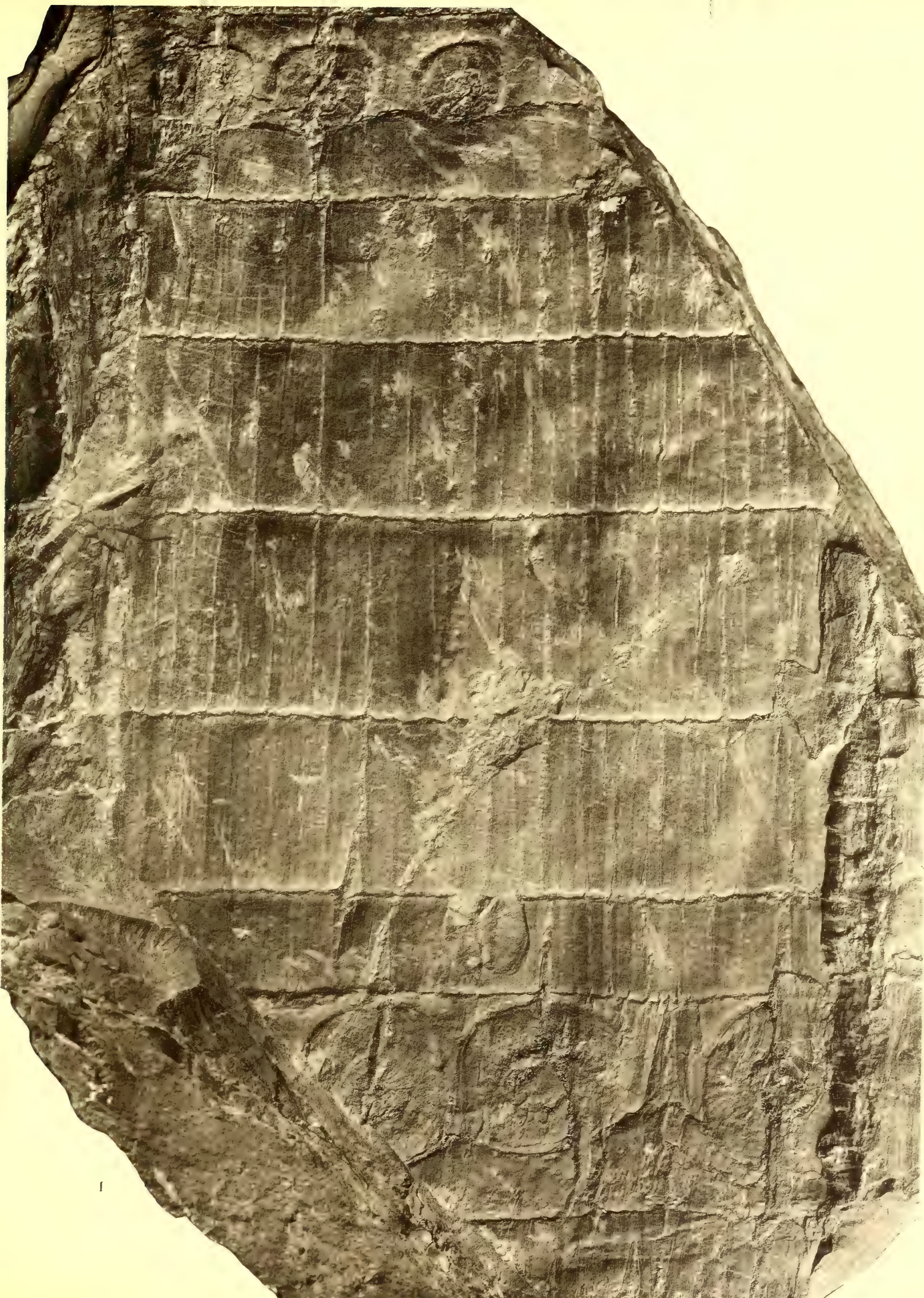


6



3

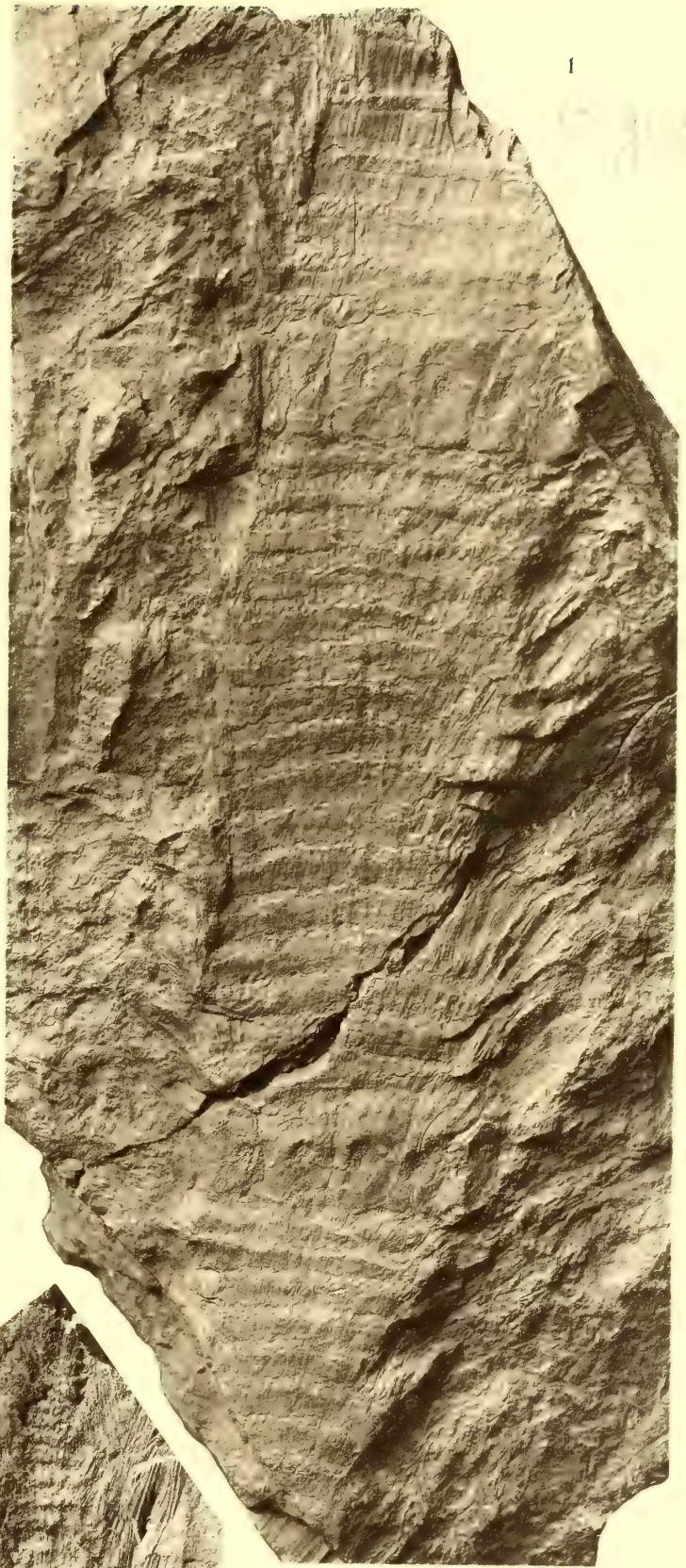
C. pseudogerminata Kalkstein



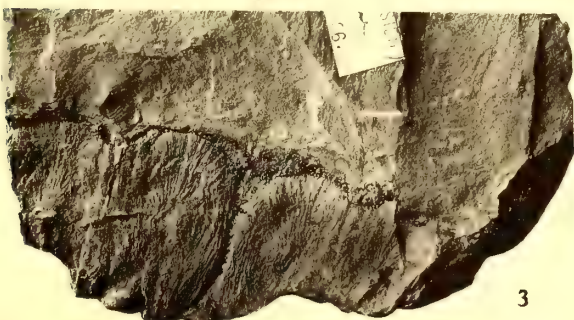


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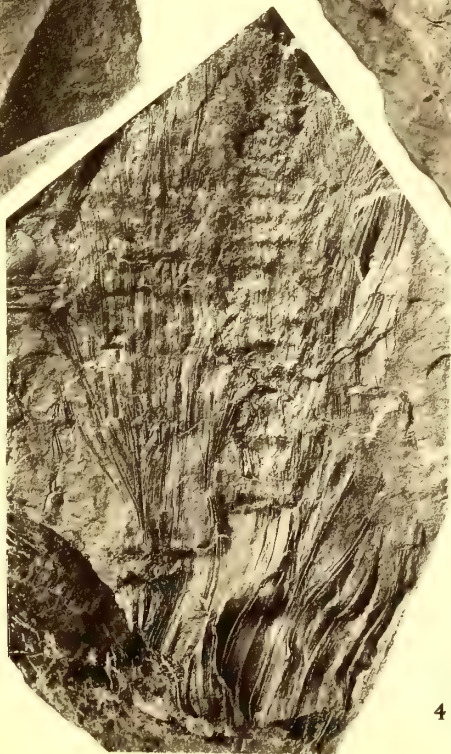
C. ducifer Weiss.



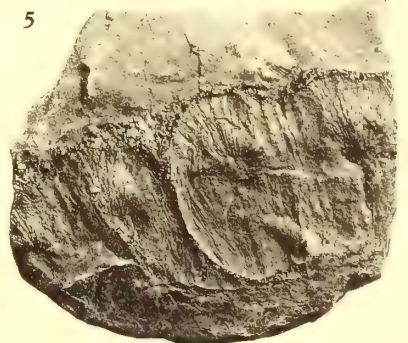
1



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4



5

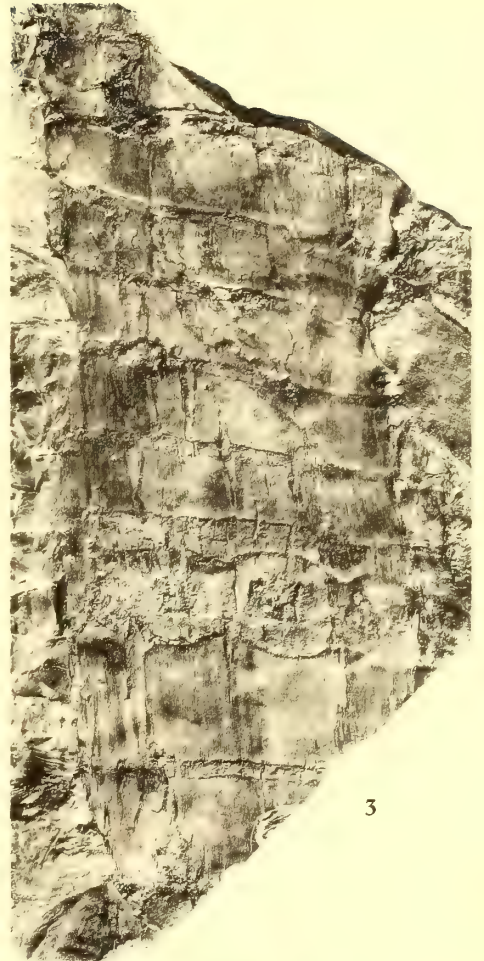
? *C. luttice* lottia 3-5.

C. gypiparti St. 13.

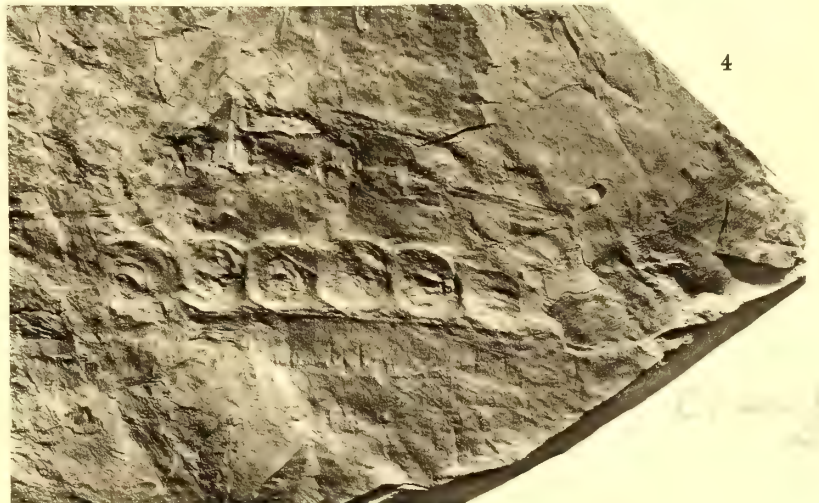
1



2

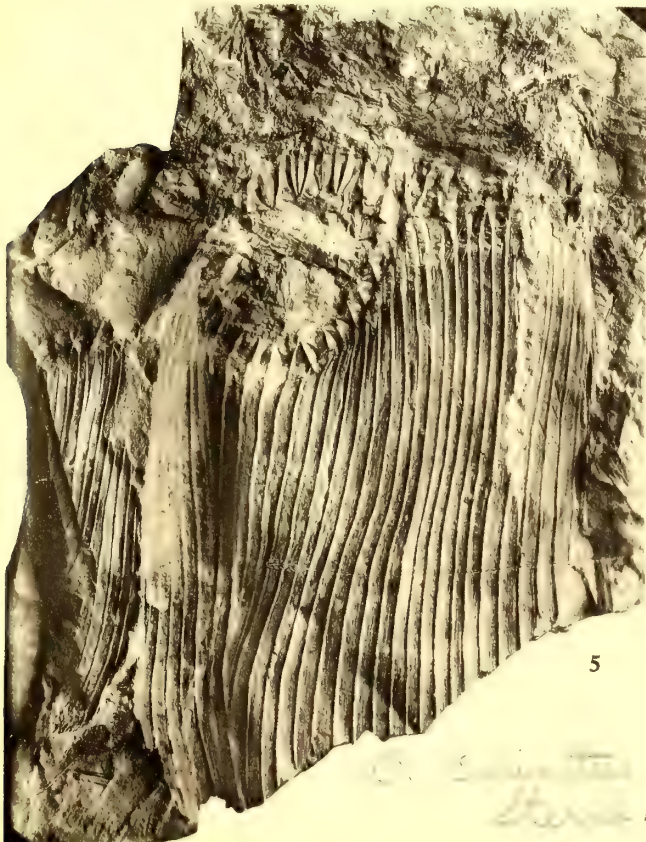


3



4

C. gypiparti St. 13.



5

C. gypiparti St. 13.



6

C. gypiparti St. 13.

C. bisulca Lamour. 213.



1

C. bisulca Lamour.



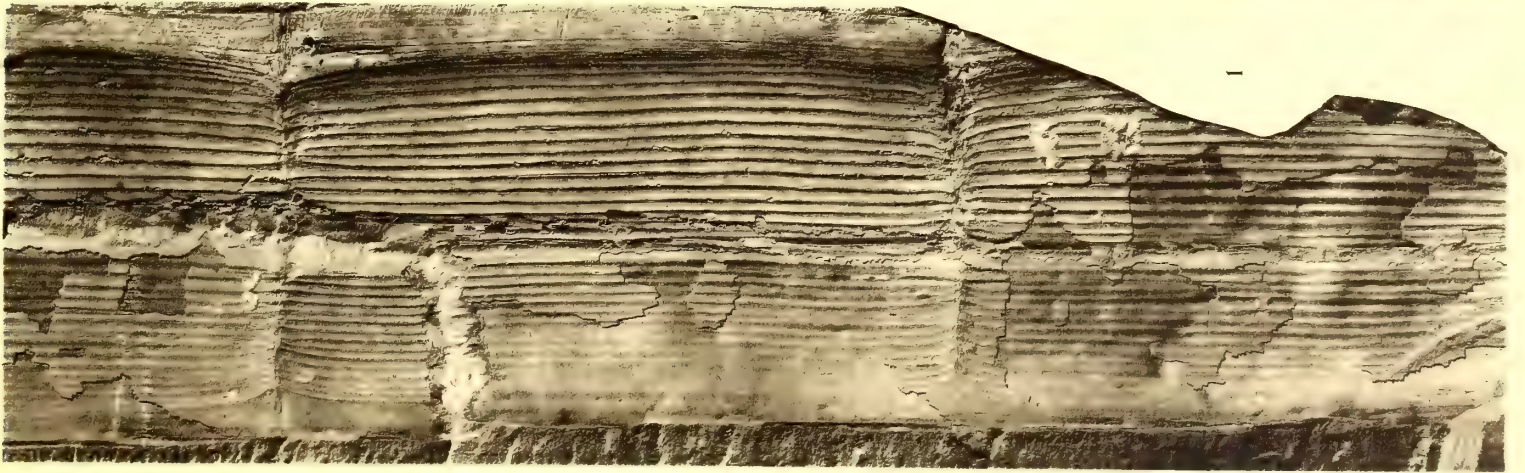
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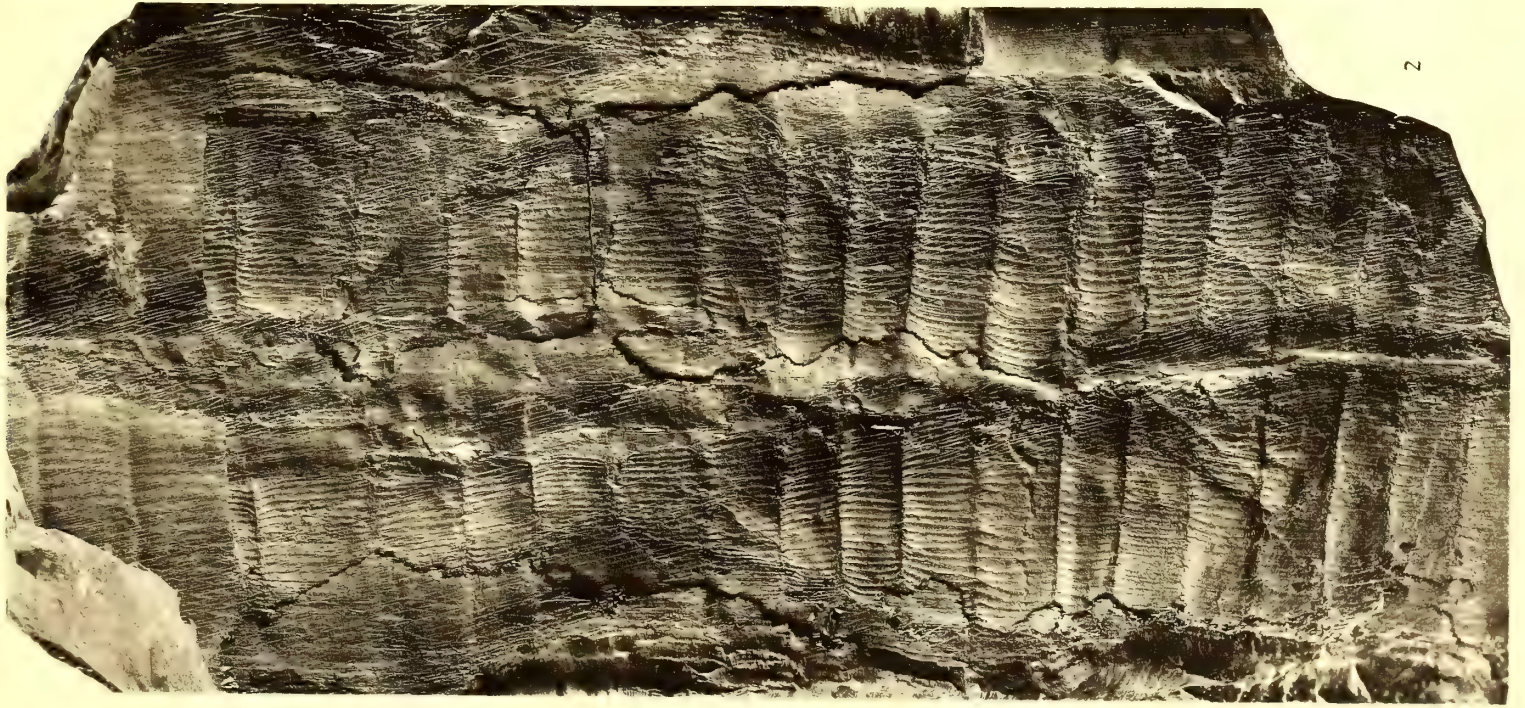
3

C. pentagonarium Kildala
et formans 4, 5.

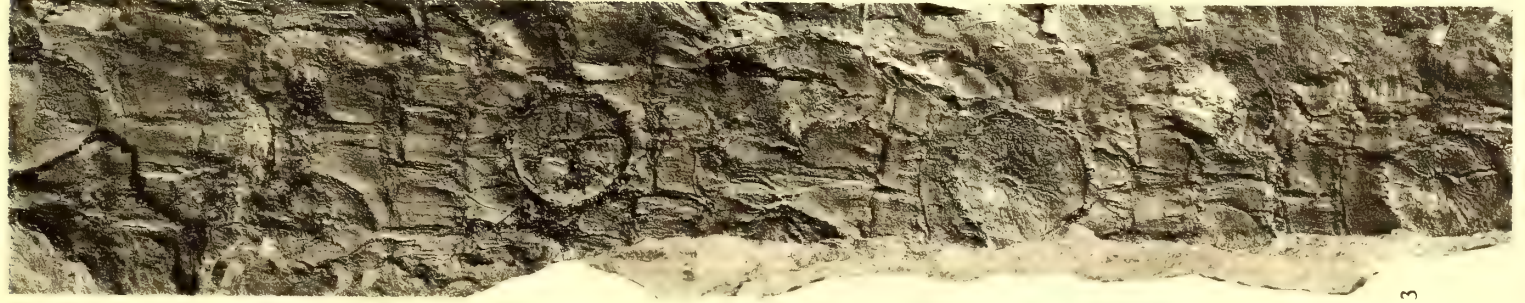
C. schatziformis intermedia
Kildala et formans 1, 2.



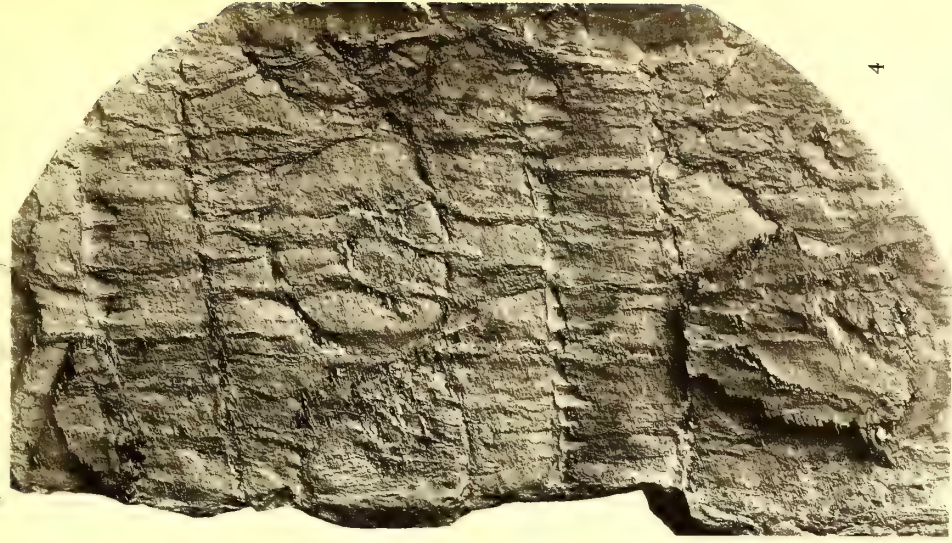
1



2



3



4



5



3



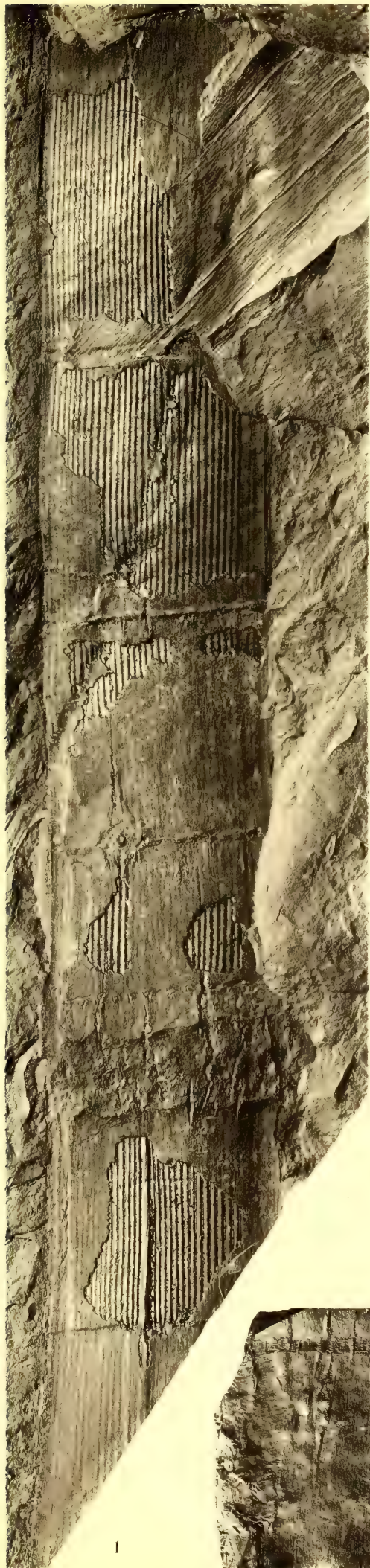
2



4



C. vandergrachtii
O. Hillier, Geol. 3. 7.



1



3



5



2



4

C. species (C. yunnanensis Schlegel)



1

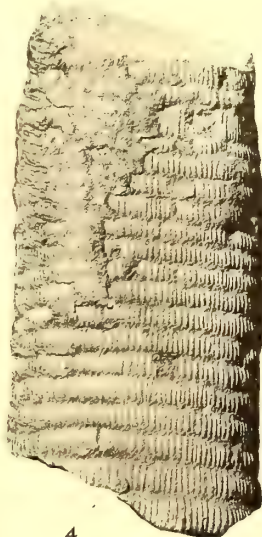


2

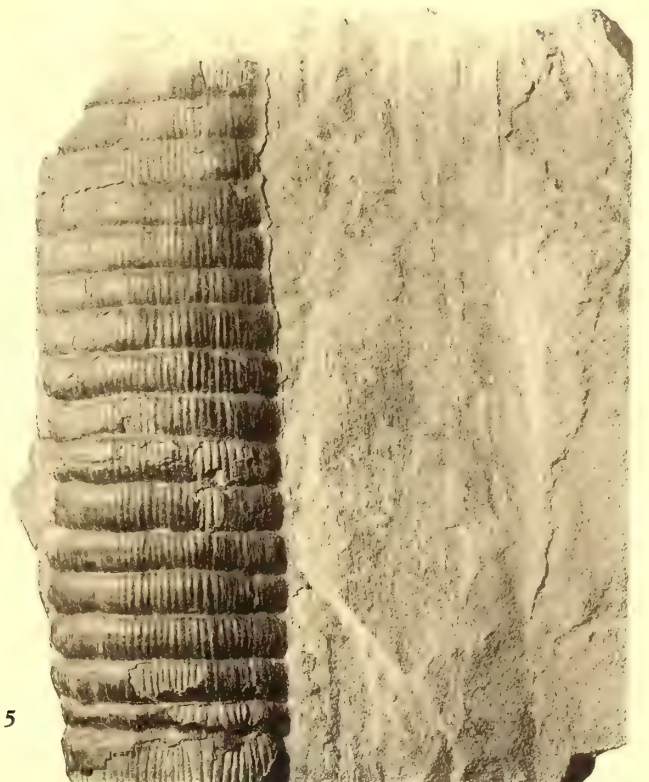
*Colletes
appressatus
Schlegel
Sphenoceras*



3



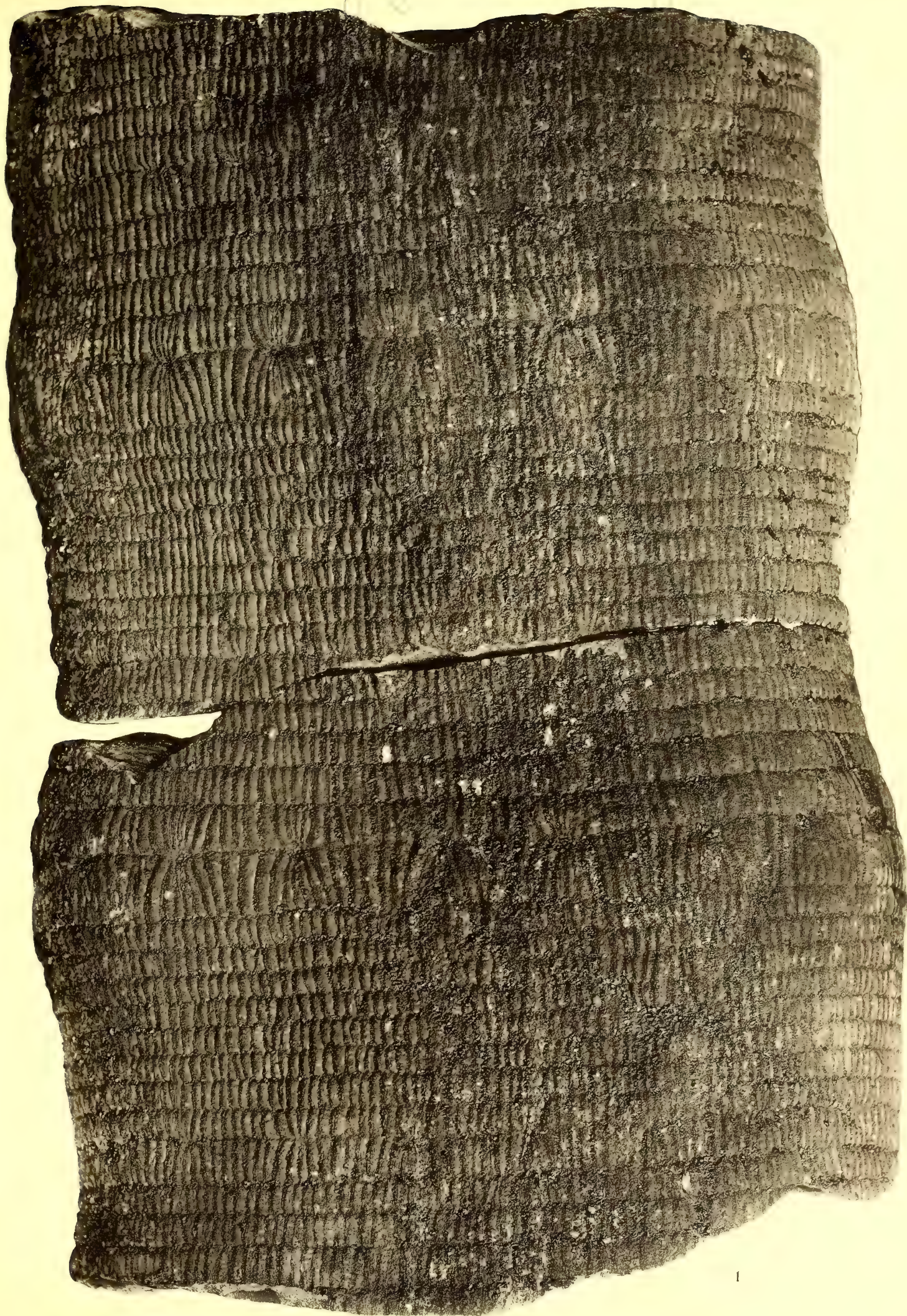
4



5

*C. schützianus typical
Hind. at. frag.*

C. schützianus at. Hind. at. frag.



1

C. schützei forma intermedia
Kid et jong. 1, 2.

C. schützei forma intermedia
Kid et jong. 1, 2.



2



1



3



5



4

C. schutzgolfi *typisch*



1
C. schutzgolfi
typisch
1887



2



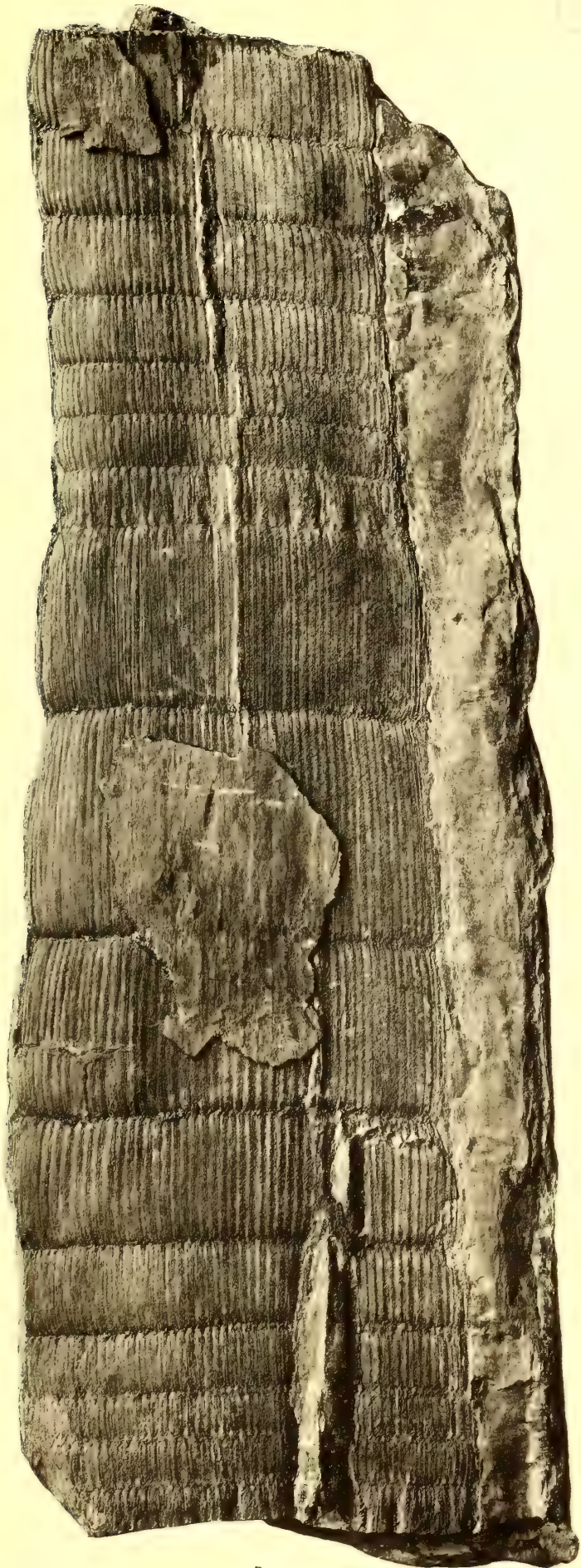
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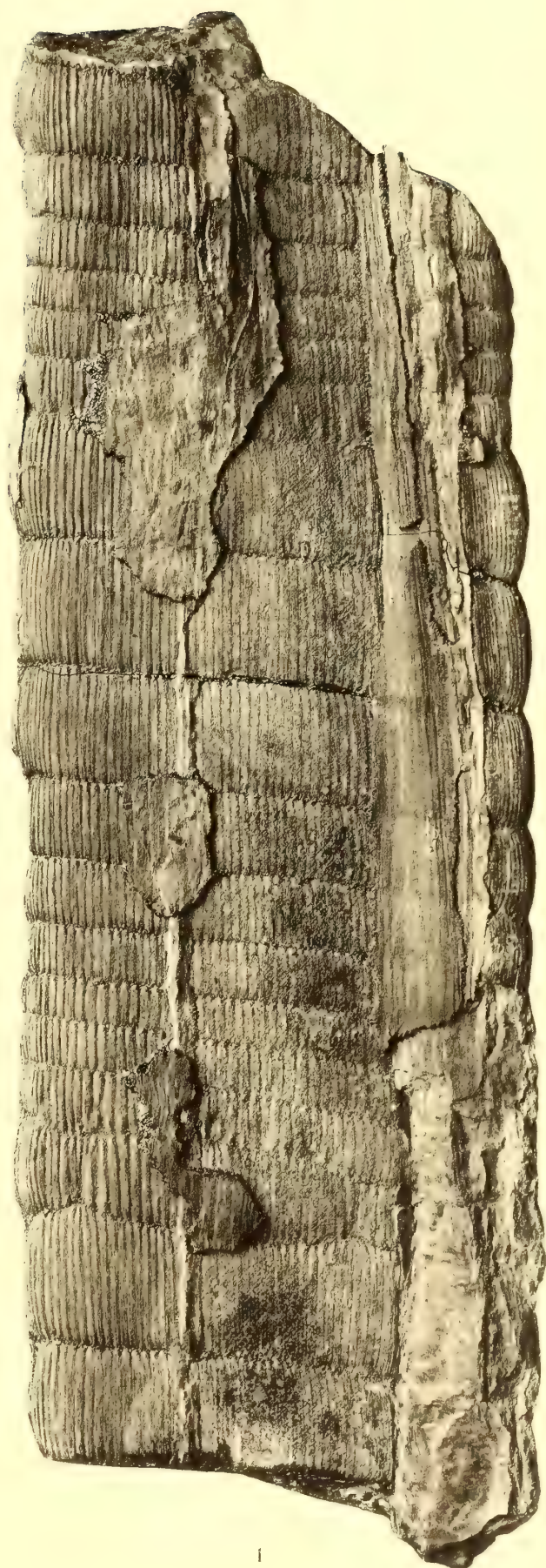
4

C. schutzgolfi

C. subquadrifida *typica*
Linn.



2



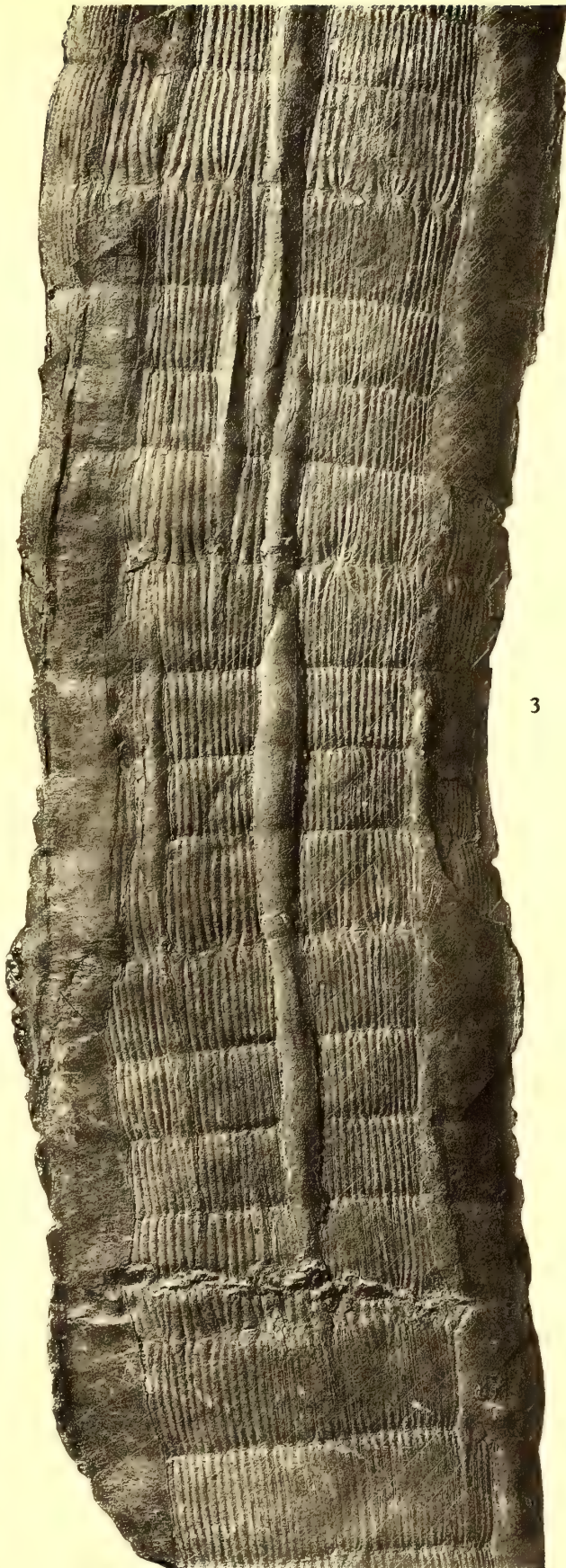
1



C. schizophya Steen. 1922.



1



3

2



4



5



6

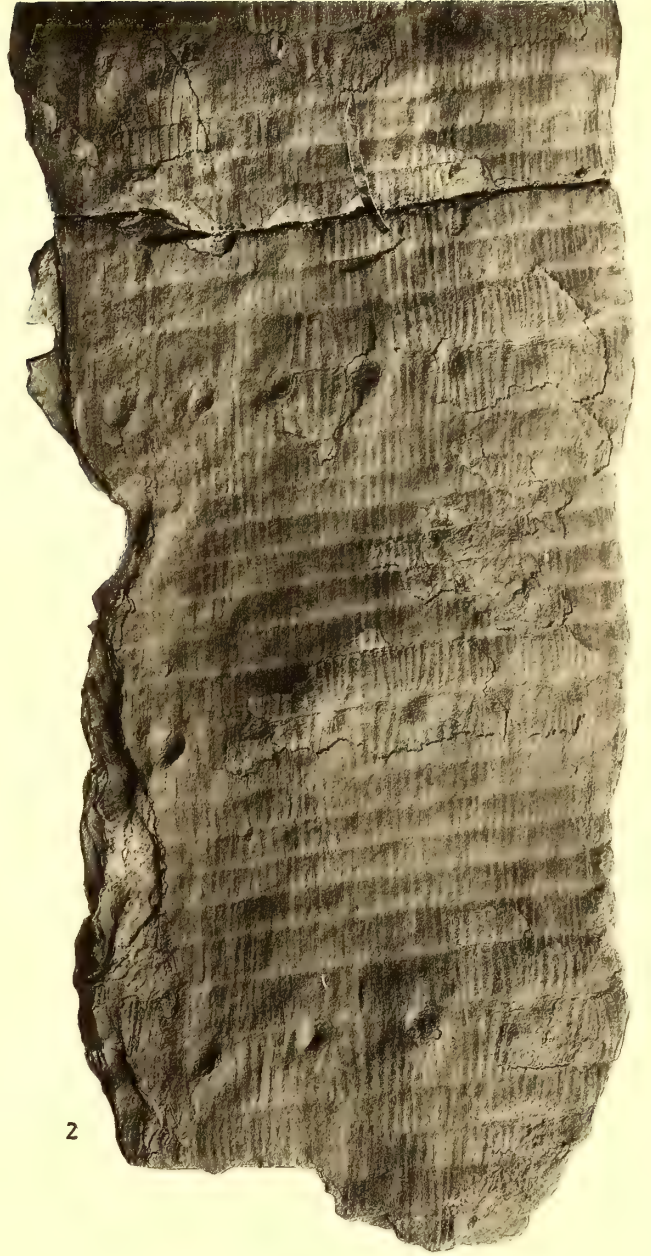
C. schizophya Steen. 1922.



C. schützgeiforomis walkei (Schubert) 1/2



1



2

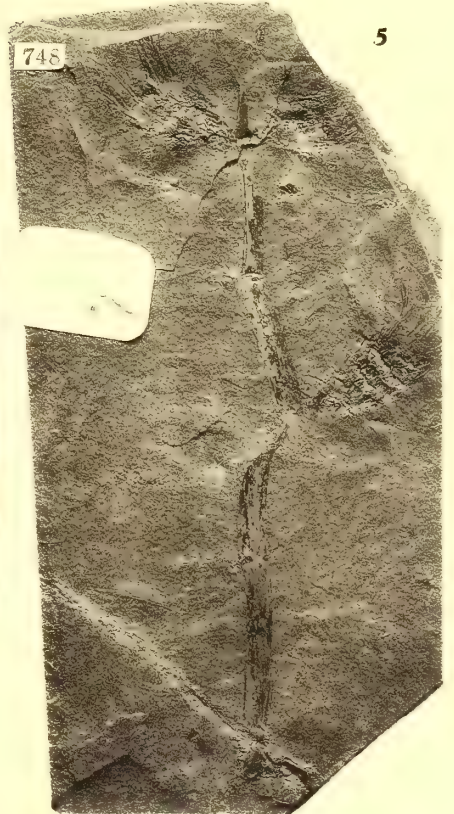


3



3801

4



748

5

C. sp. (Schubert) 2-5



*schizoclema
formica (Walden) sp. nov.
Rudolfs*

1



2



3

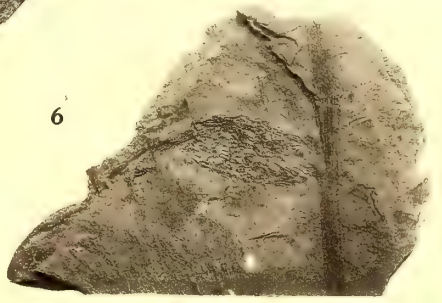


7



750

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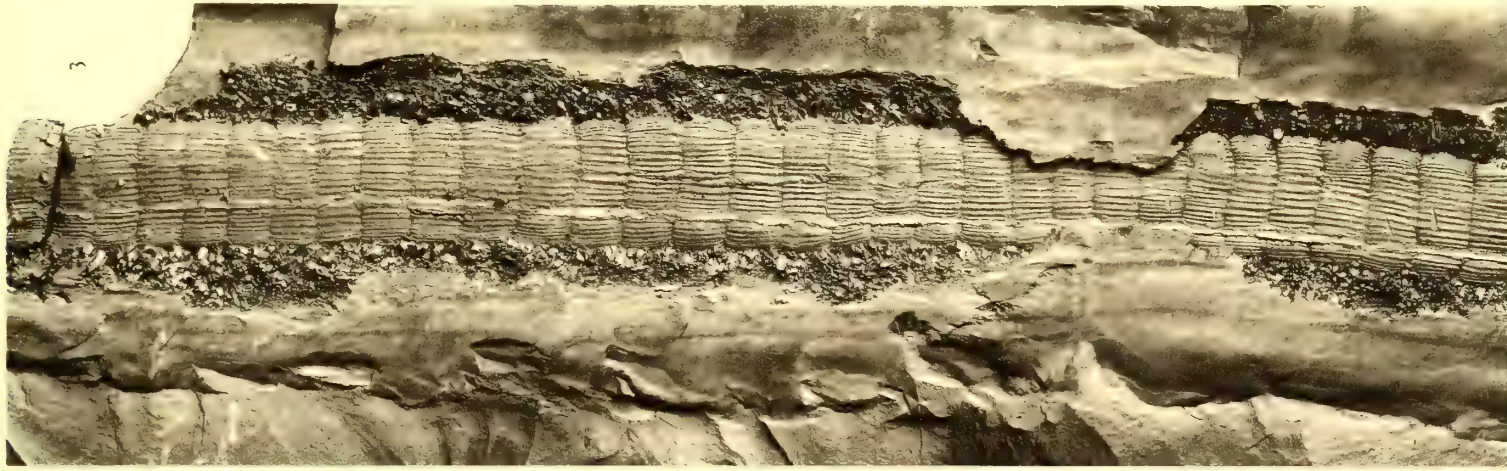
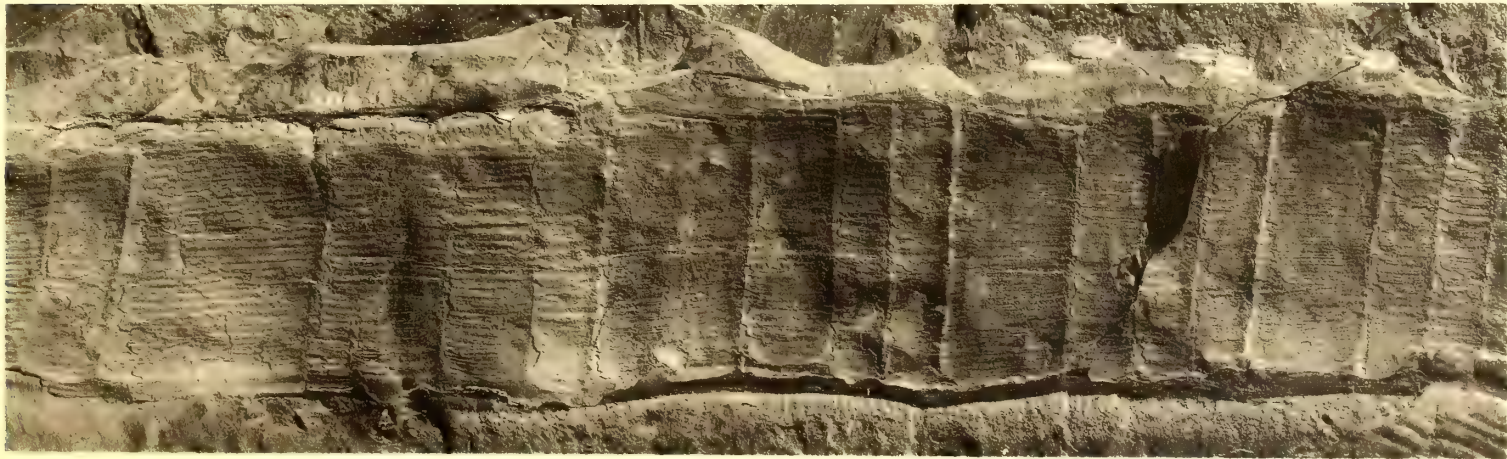


5

schizoclema (Pillula) sp. nov.

Crachitiformis typicus Kist. et Jony. Des. *Crachitiformis* *waldenbergensis* Kist.

PL. 79



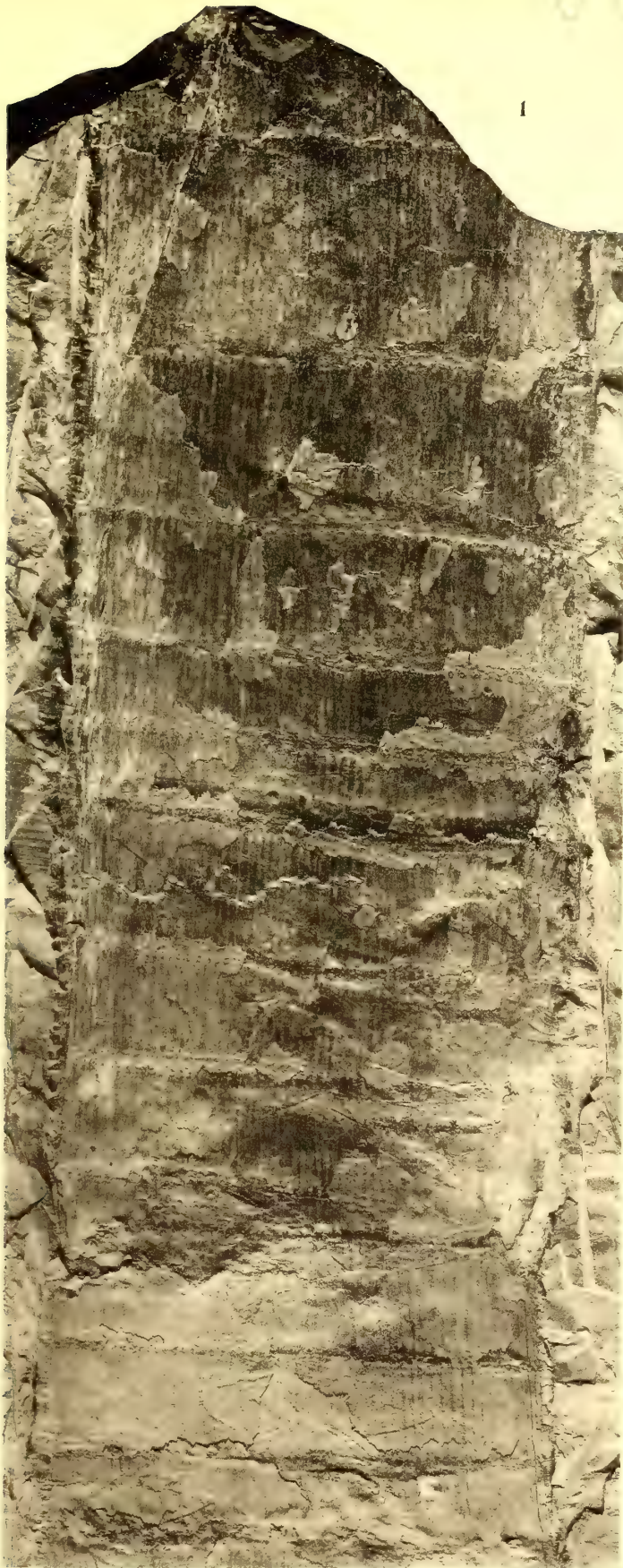
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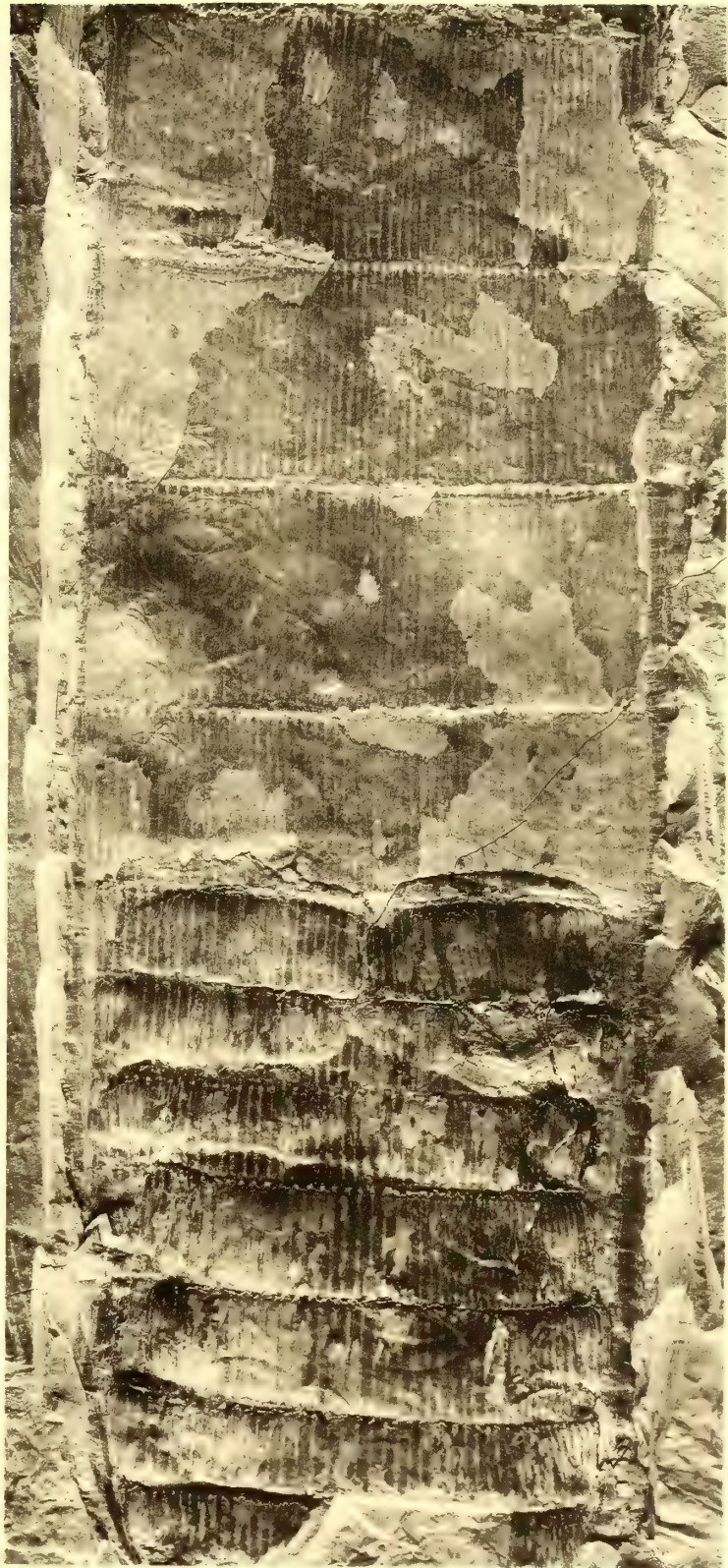
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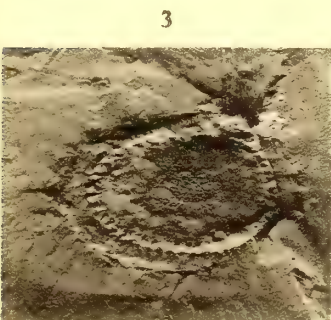
C. schitzgeri Steyner, *Reb. et p.*



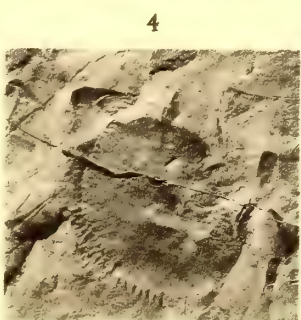
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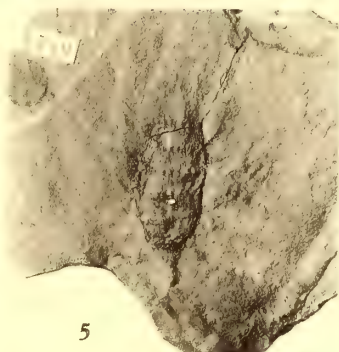
2



3



4



5



6

E. sp. (prolegata) 3.4

E. sp. 1.5.0



4



3



2

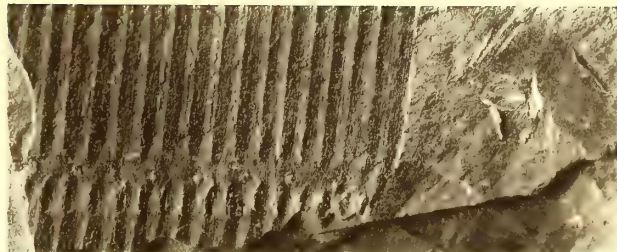
Cyprina

Cyprina

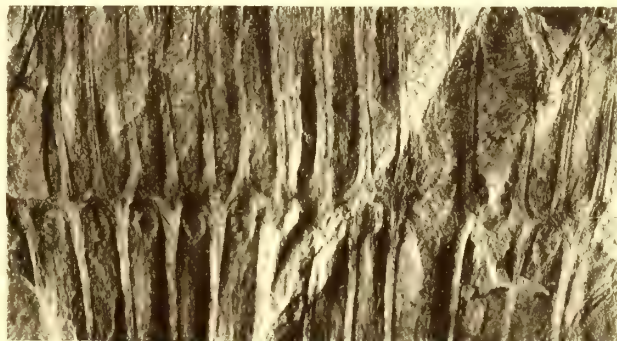


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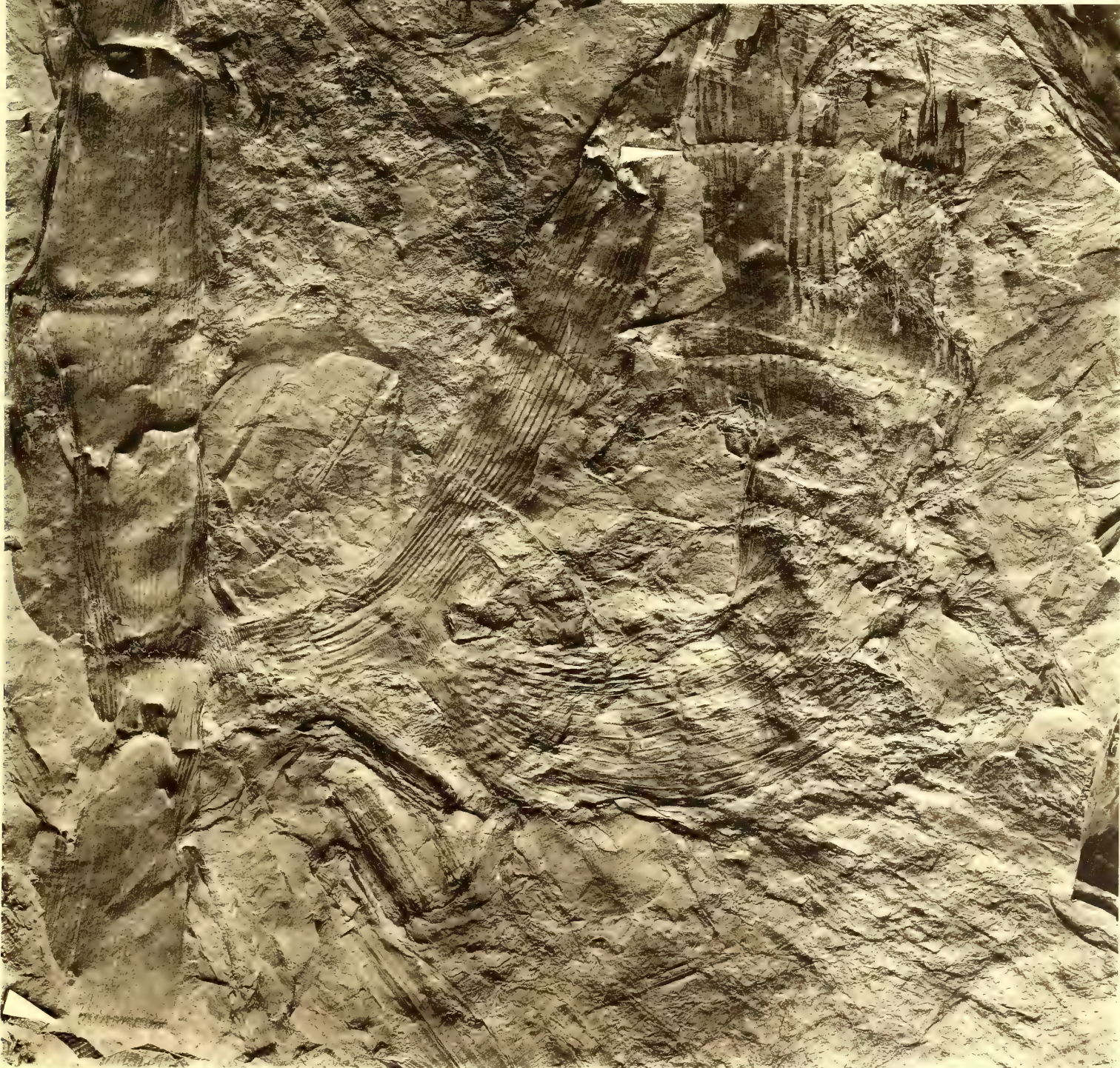
© *W. van Leeuwen* 1937



2

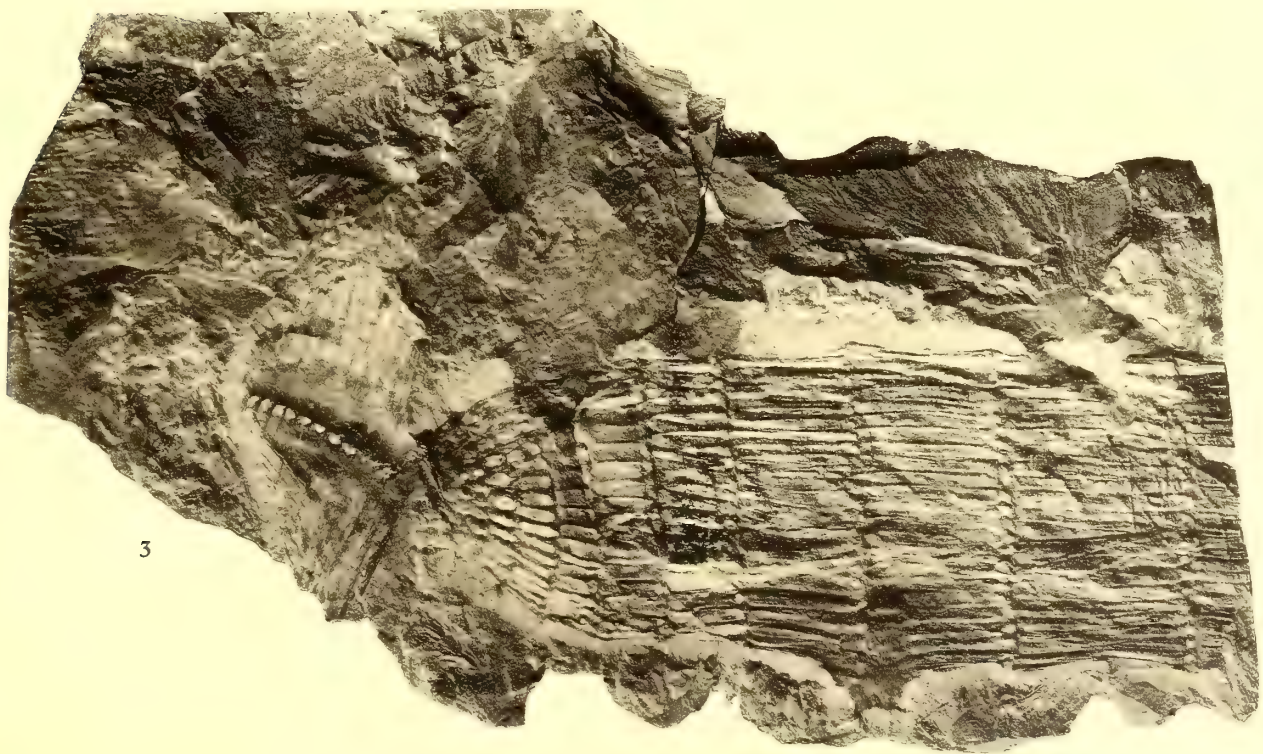
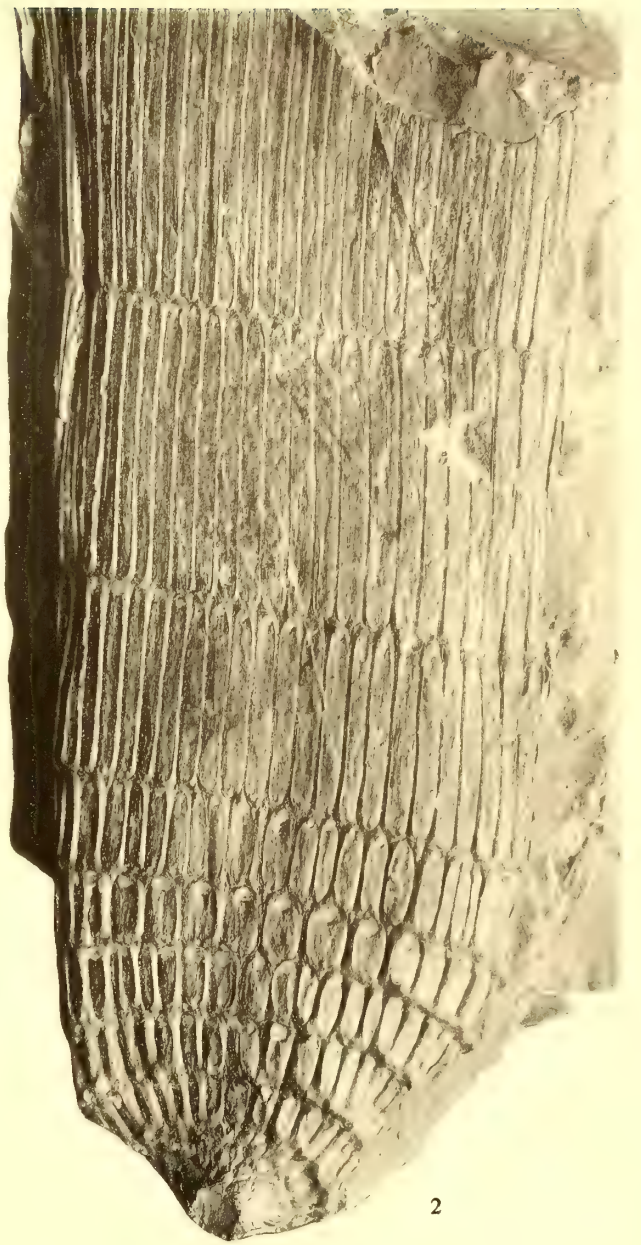


3



1

C. ...



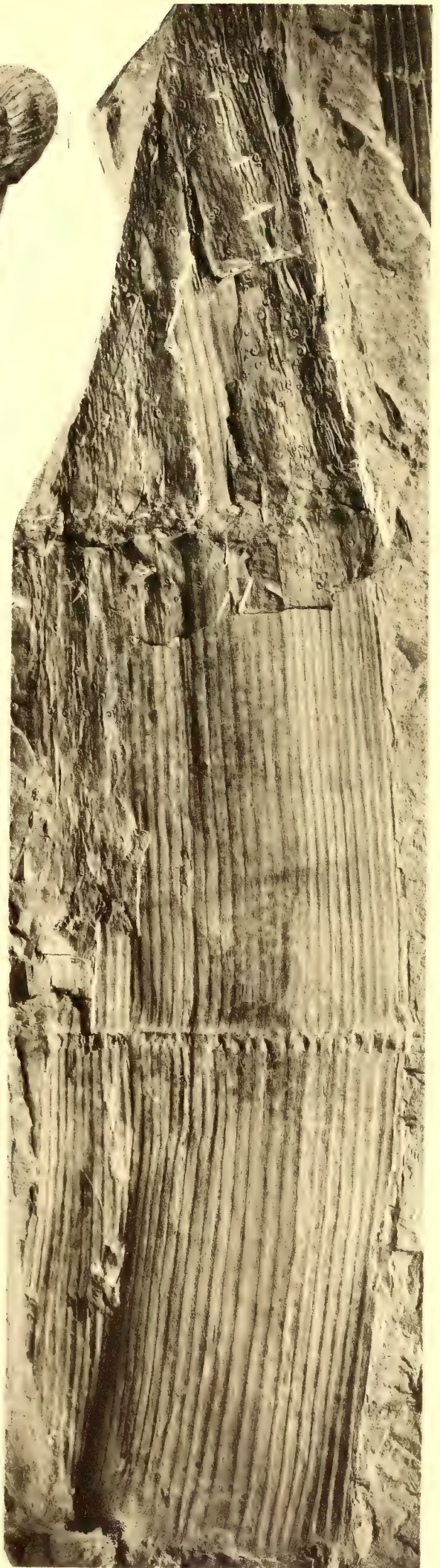




C. ...



1



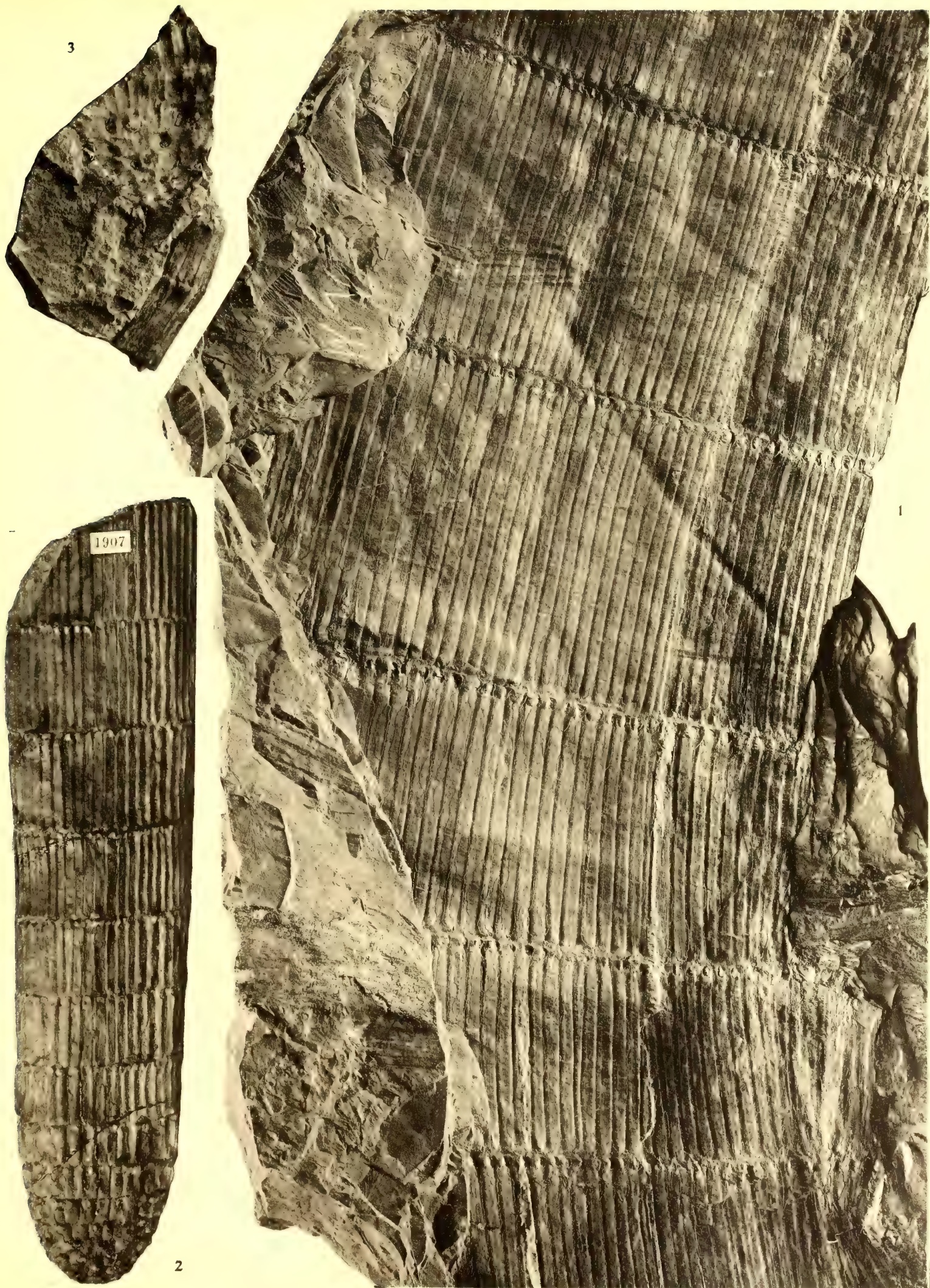
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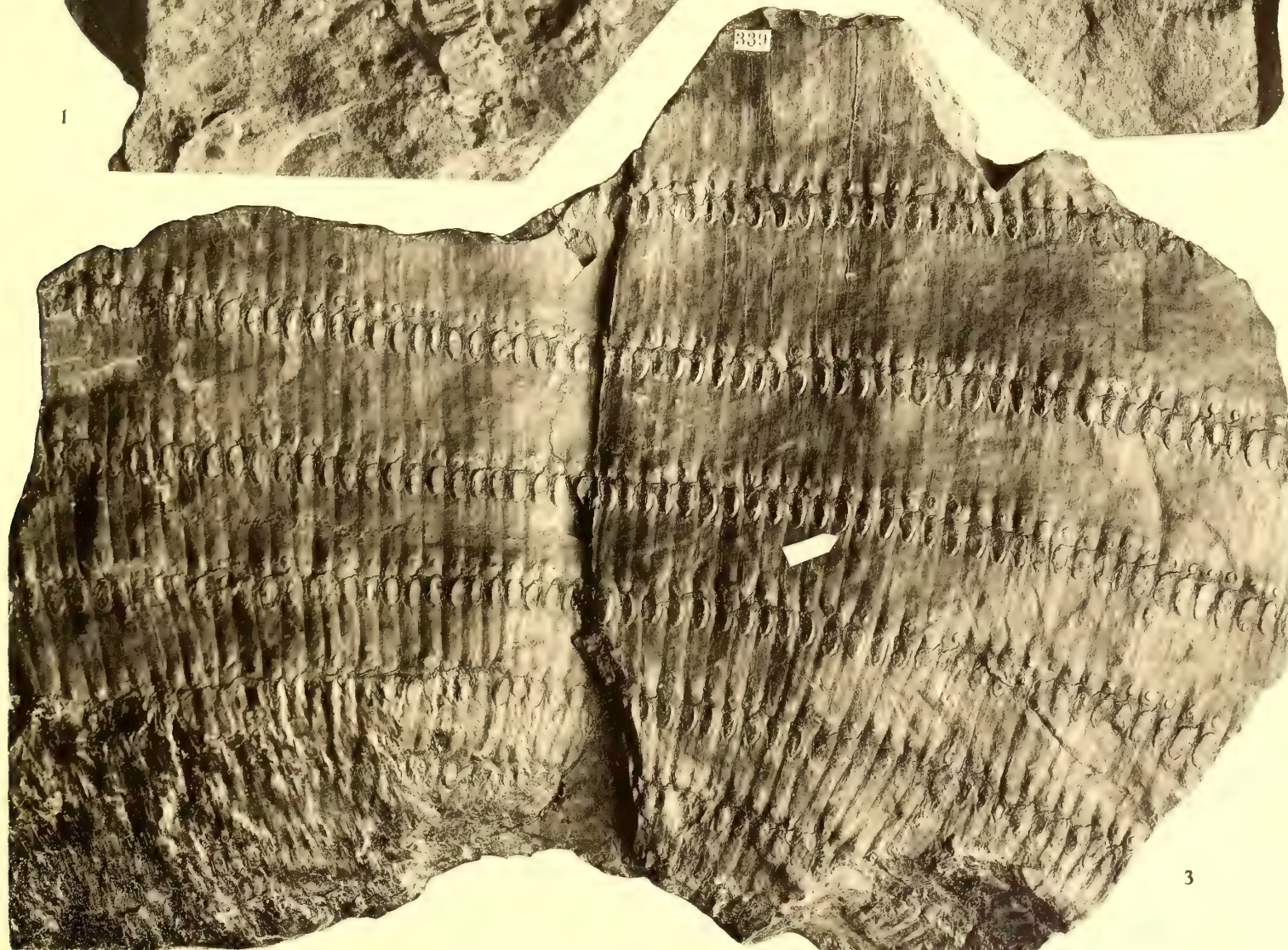
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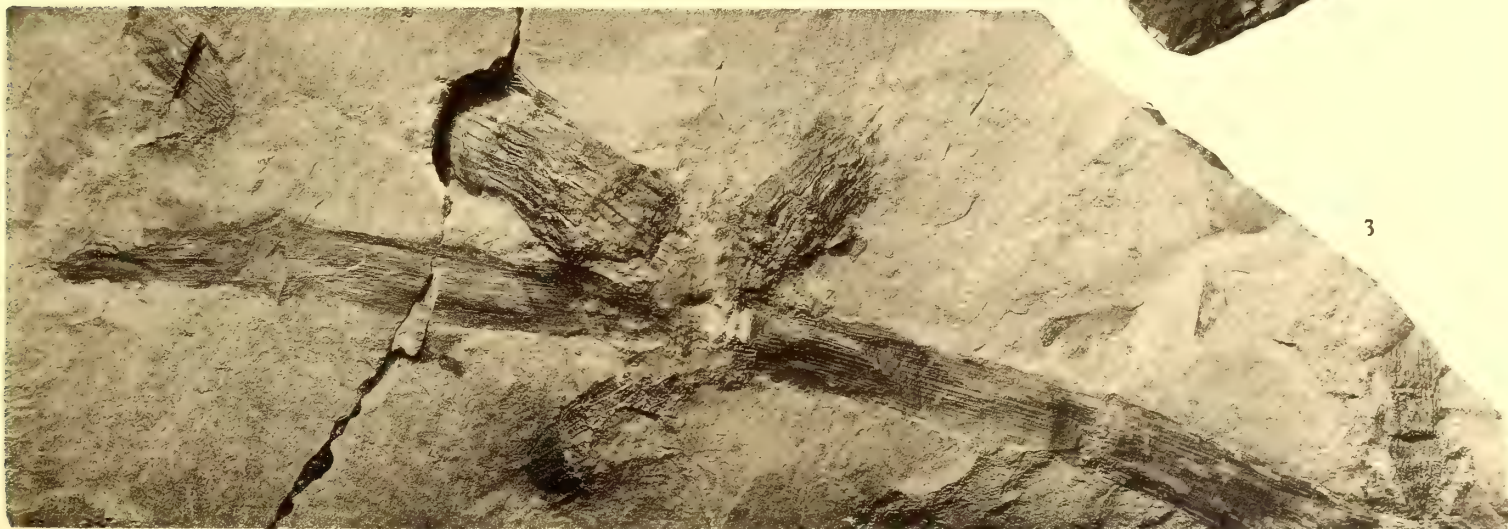
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C. surinamensis E. S. P.

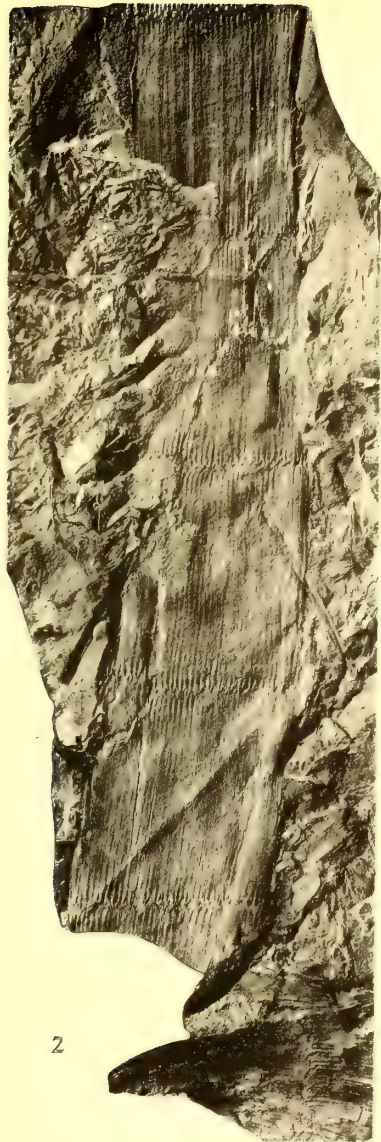


C. surinamensis
Bot.





C. ...



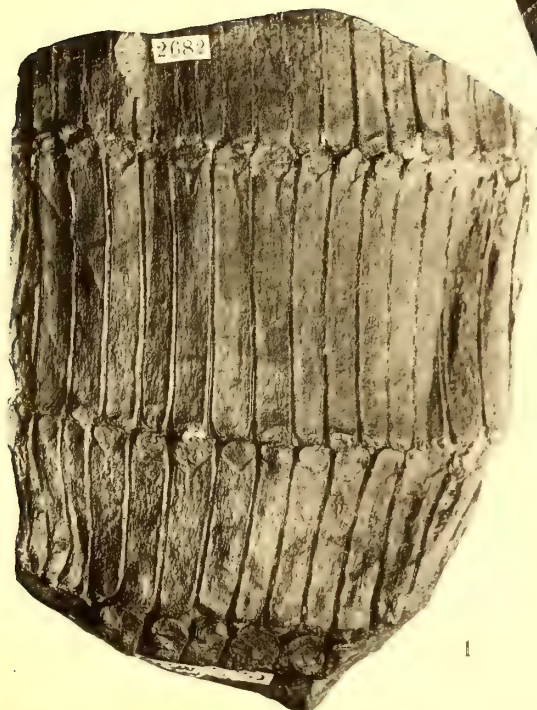
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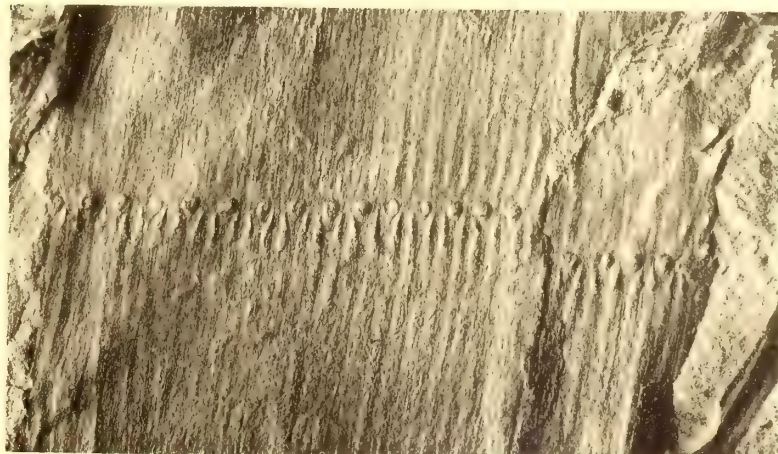
4



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C. ...



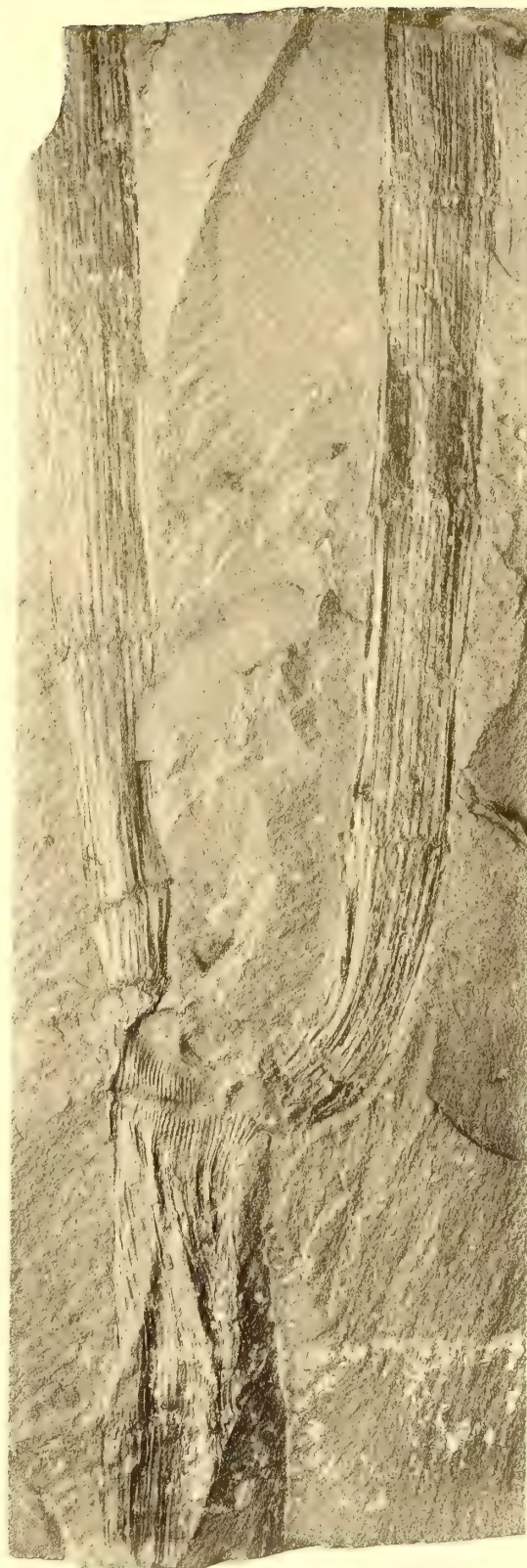
C. gigas Dyt. 3-5



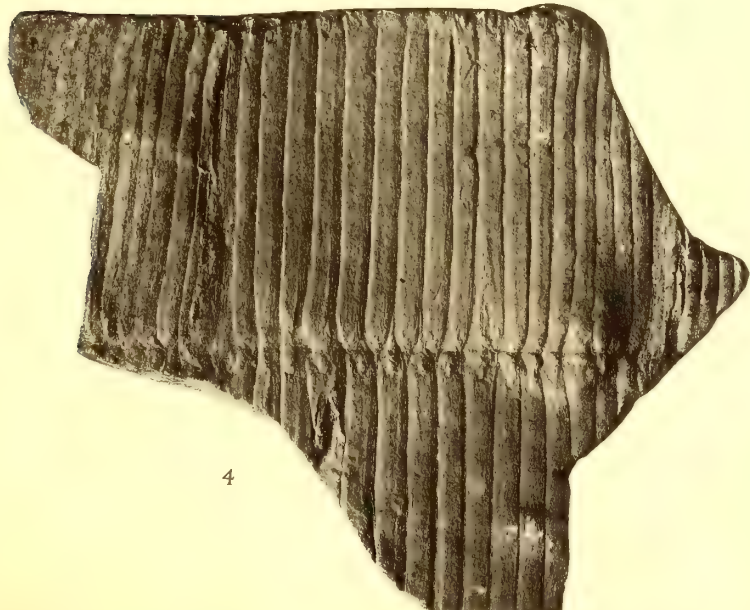
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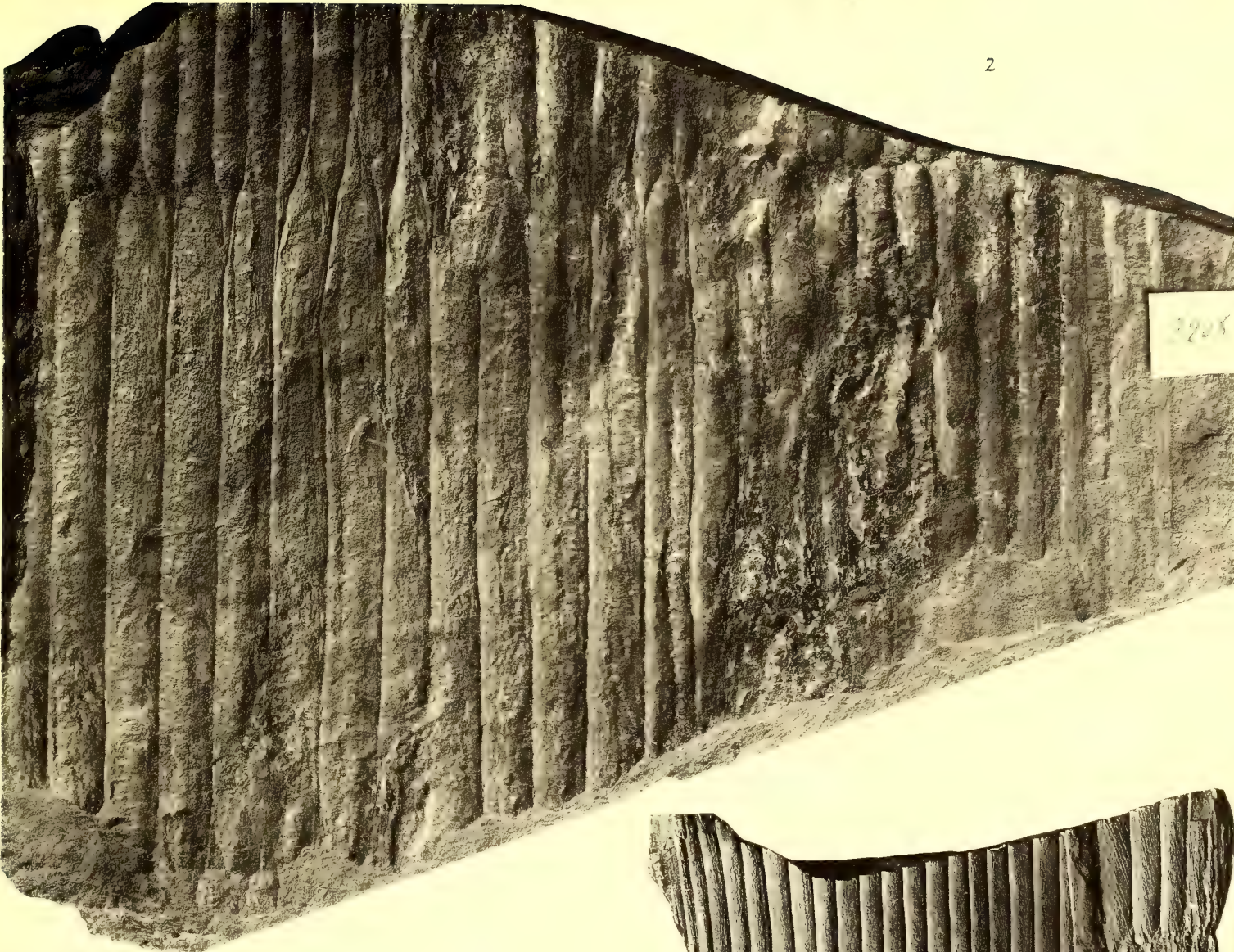
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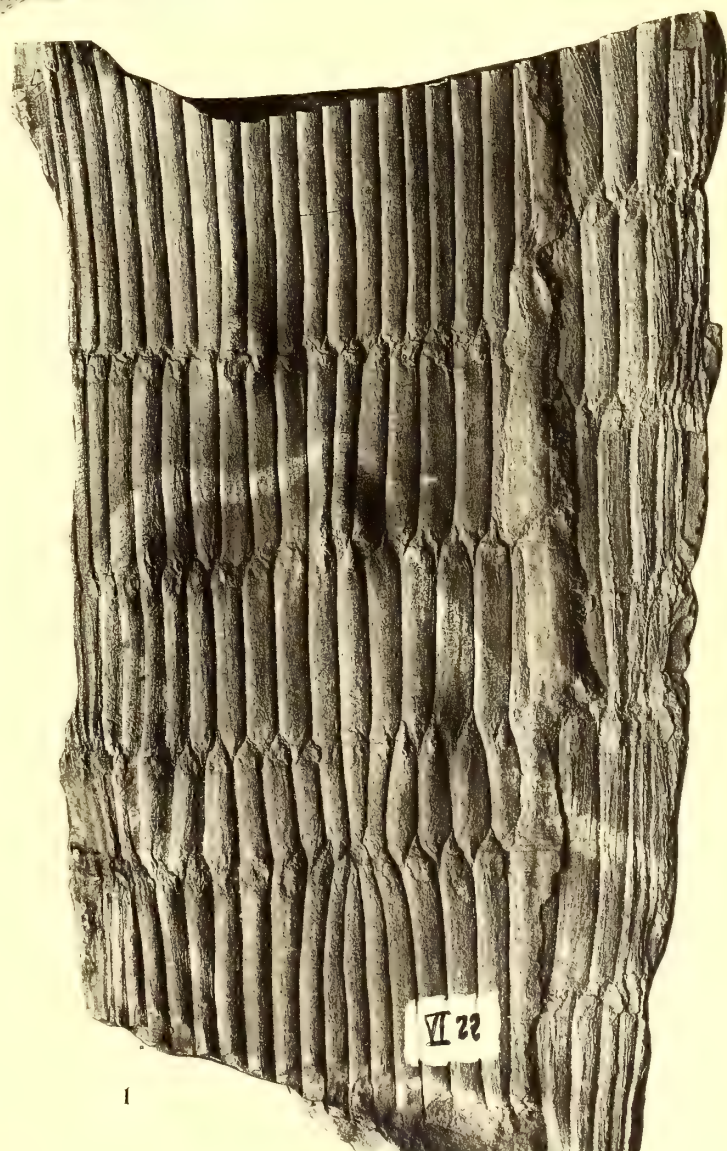
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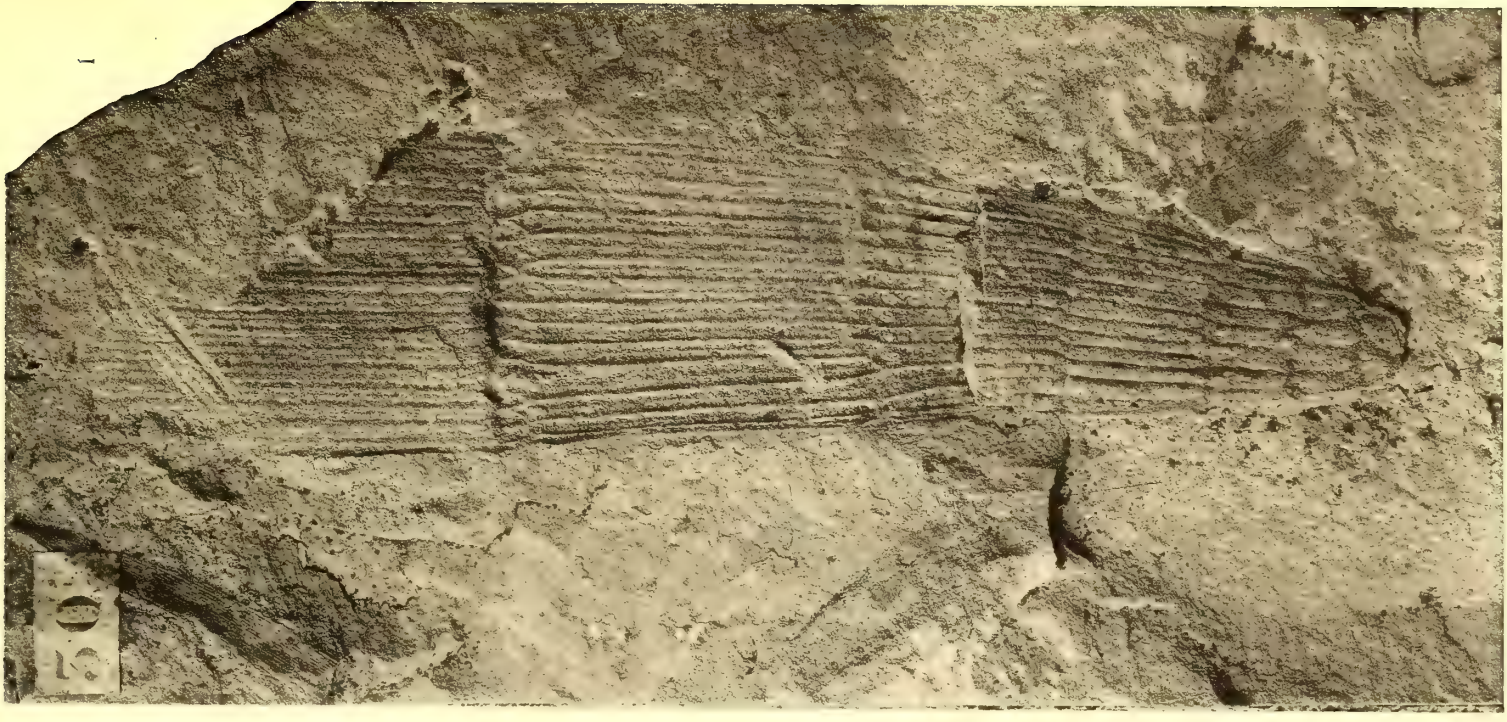
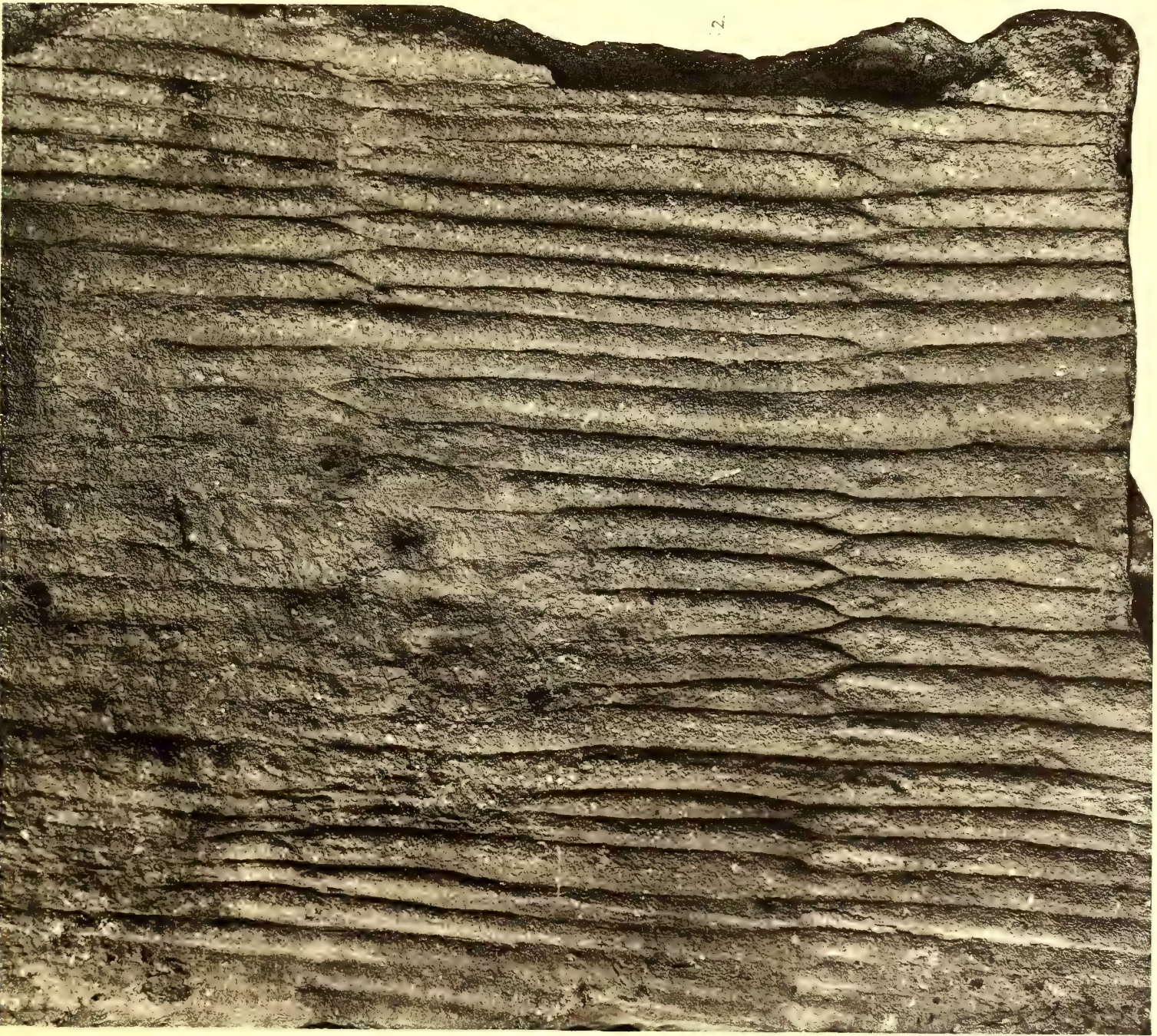
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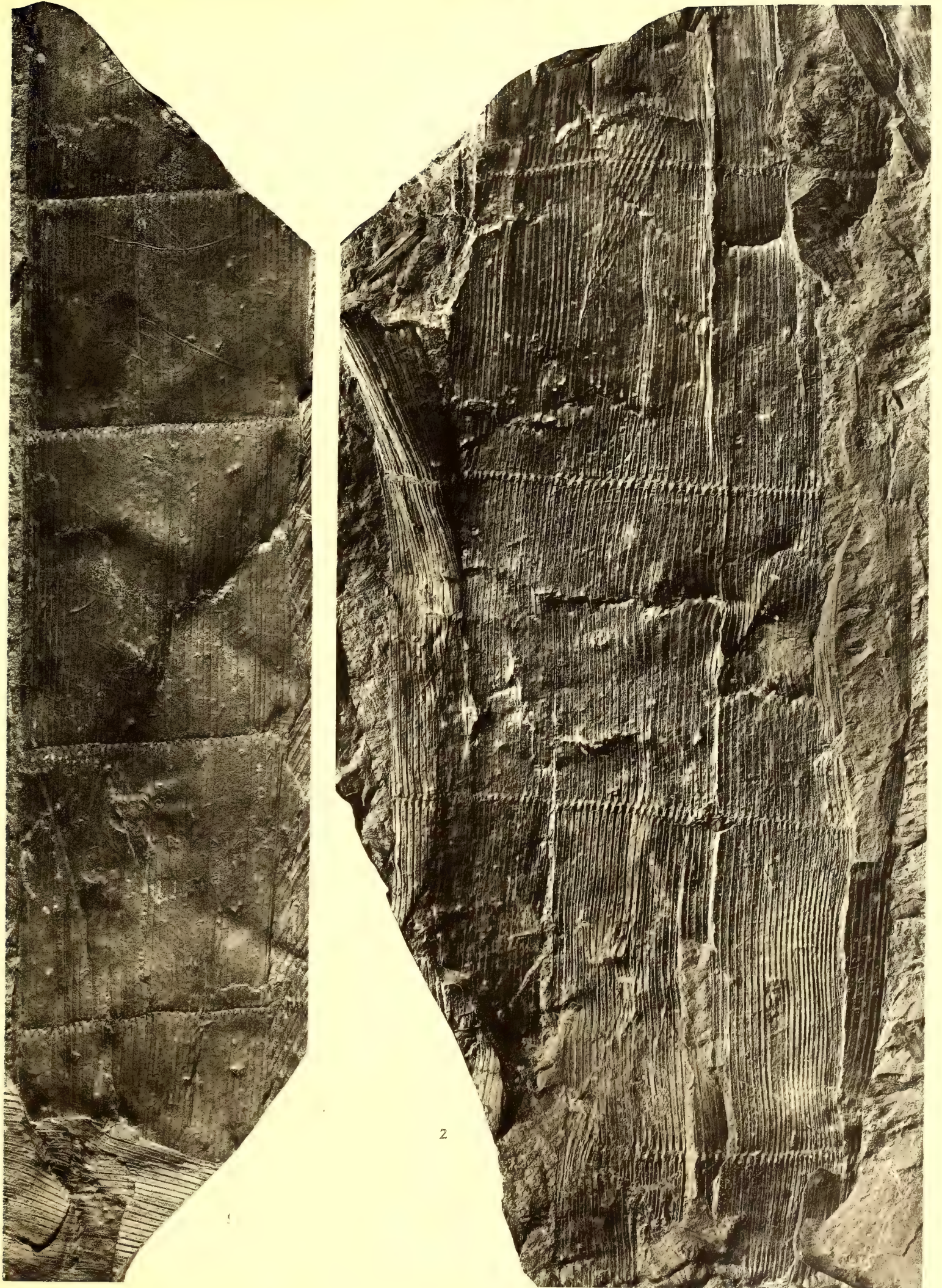
1



C. gijss 1897



C. viciae Kt.

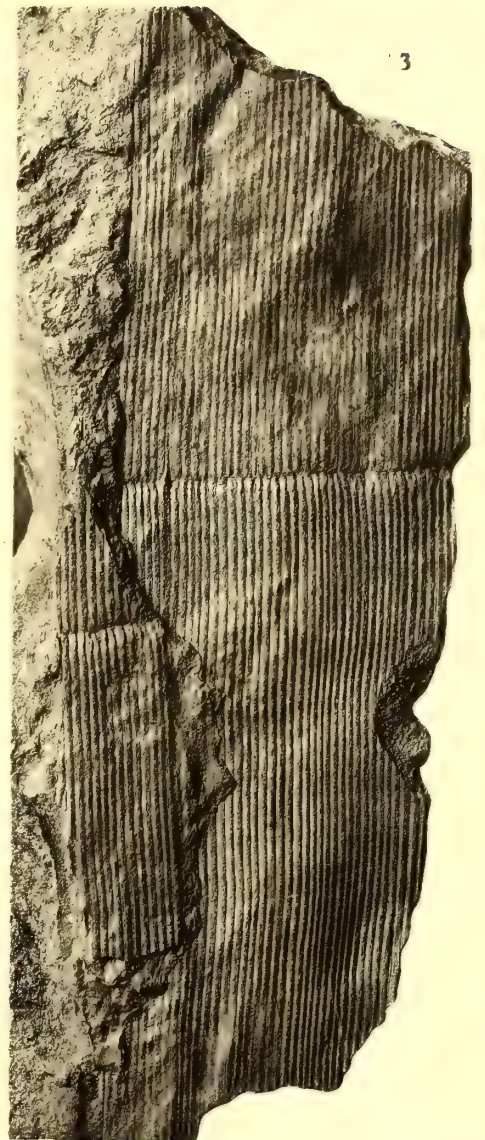
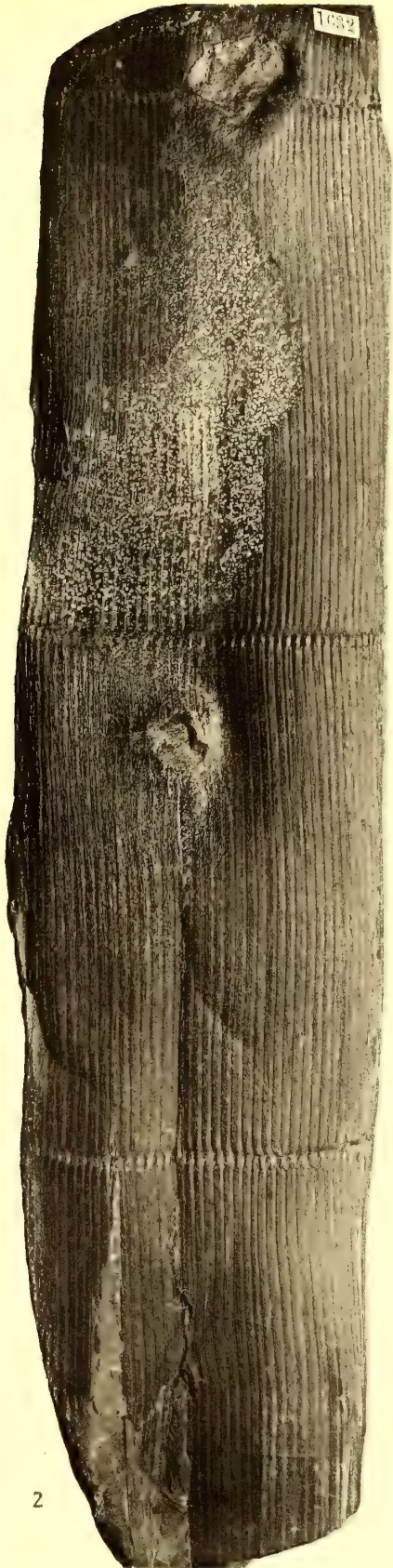


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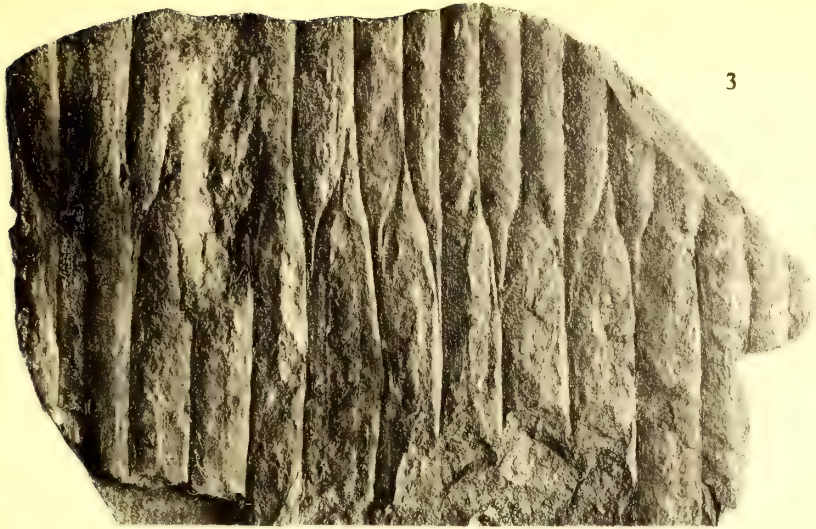
C. sachei Egt. 2-5



C. sachei Egt.



C. cisti Eyt. 1842

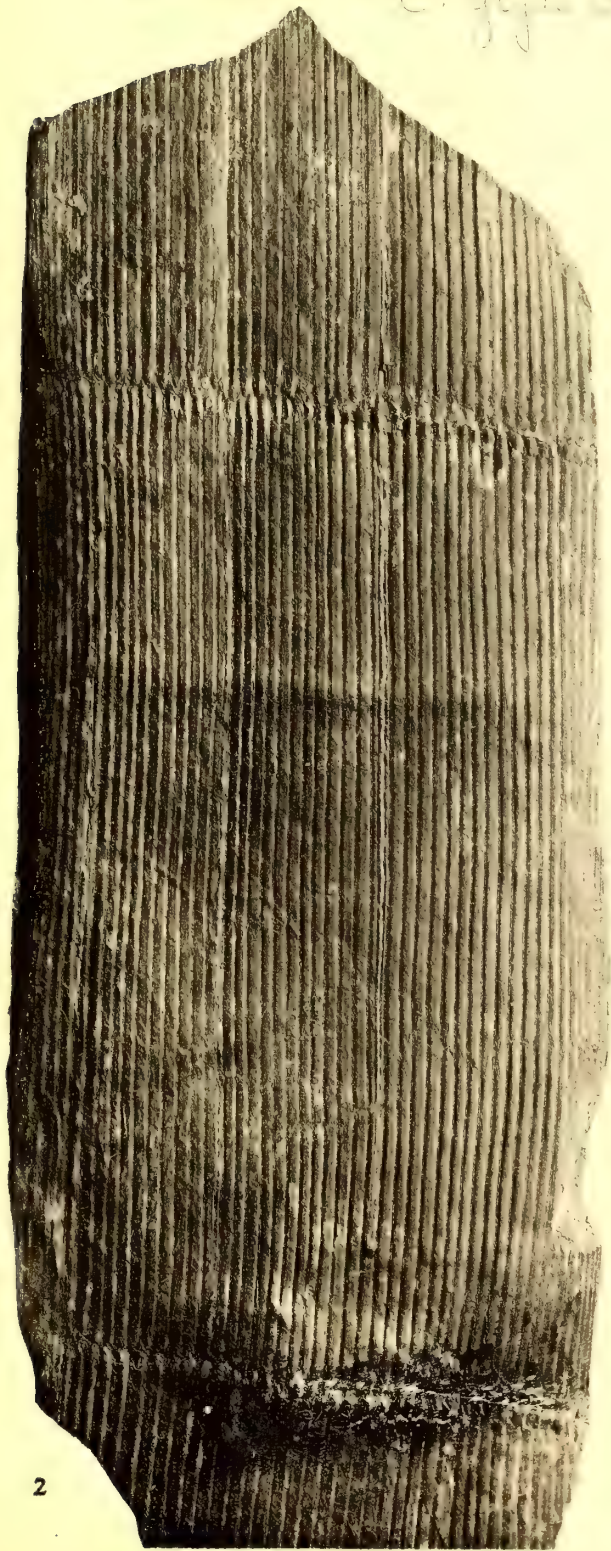


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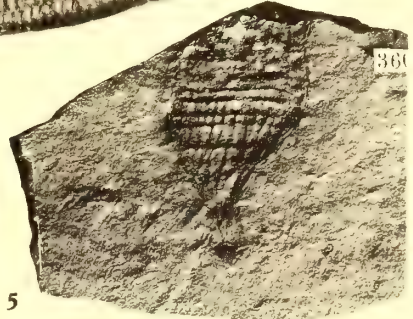
C. gigantea Eyt.



2



4



5

360

C. gigantea (Linn.) Eyt. 1842

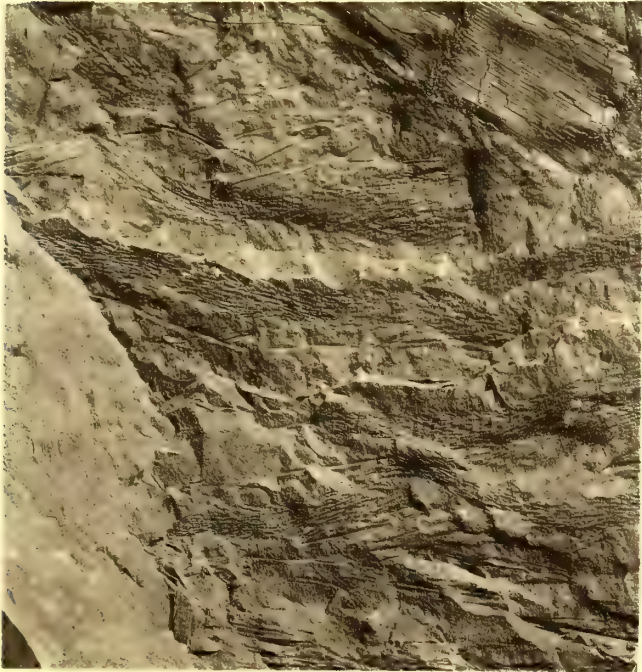
C. 7. et 4.

1

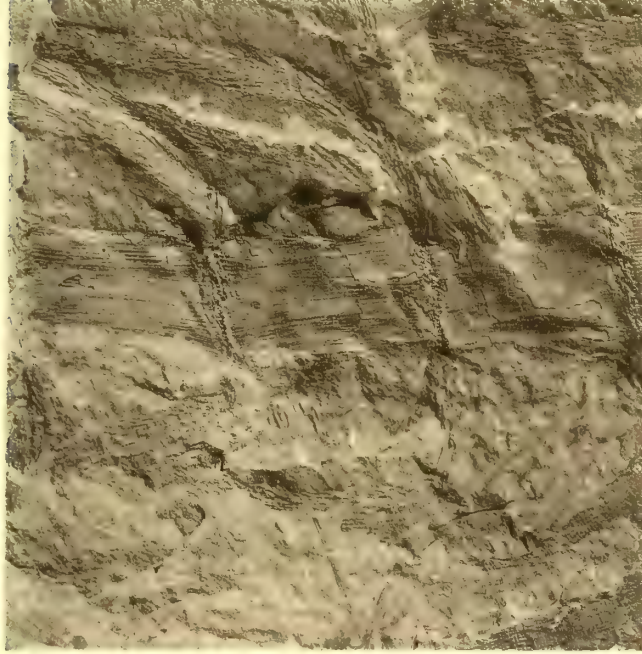


C. julatus L. of K.

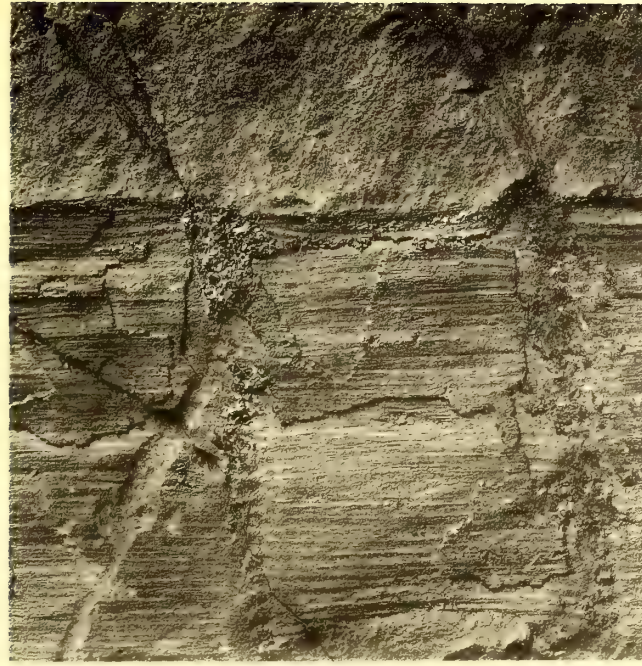
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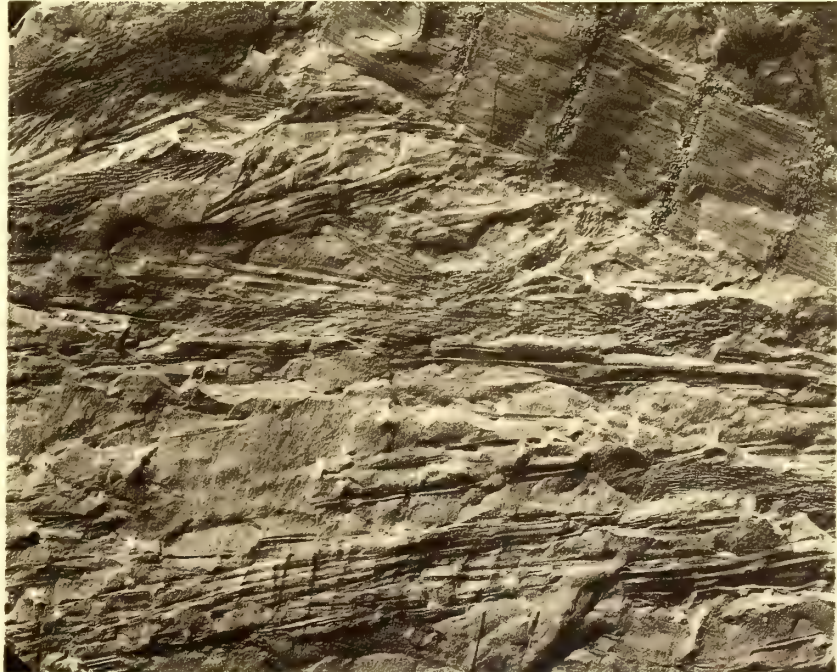
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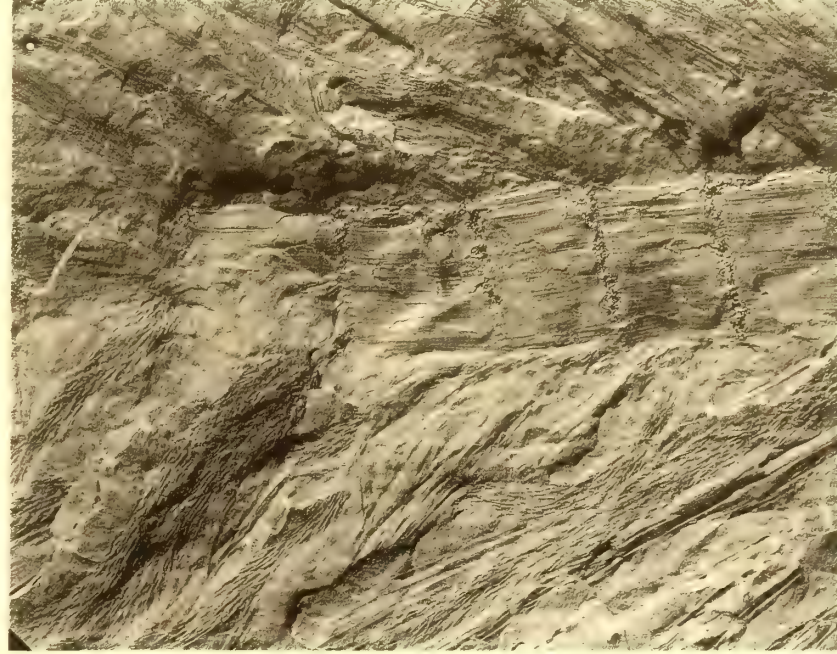
3



4



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6





Astrophylloides iribata L. & H.
 HUTTON CI 16 a
 125 a
 JARRISON

TYPE SPECIMEN.
 Plate 133.

2



1



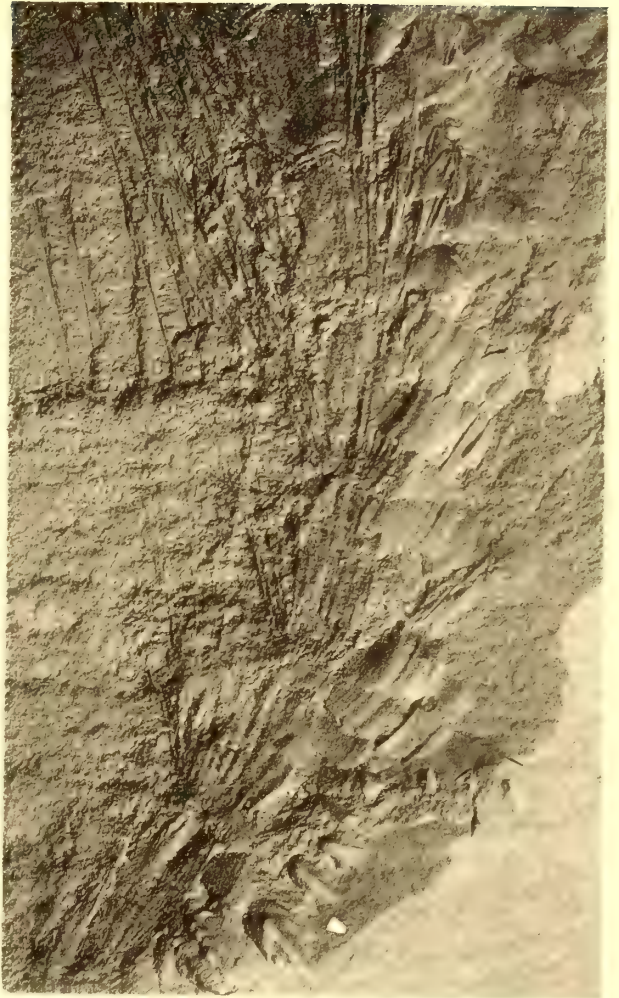
3



4



1



2



3



4

C. spines (phlegm)



5

C. species (with central vascular bundles)

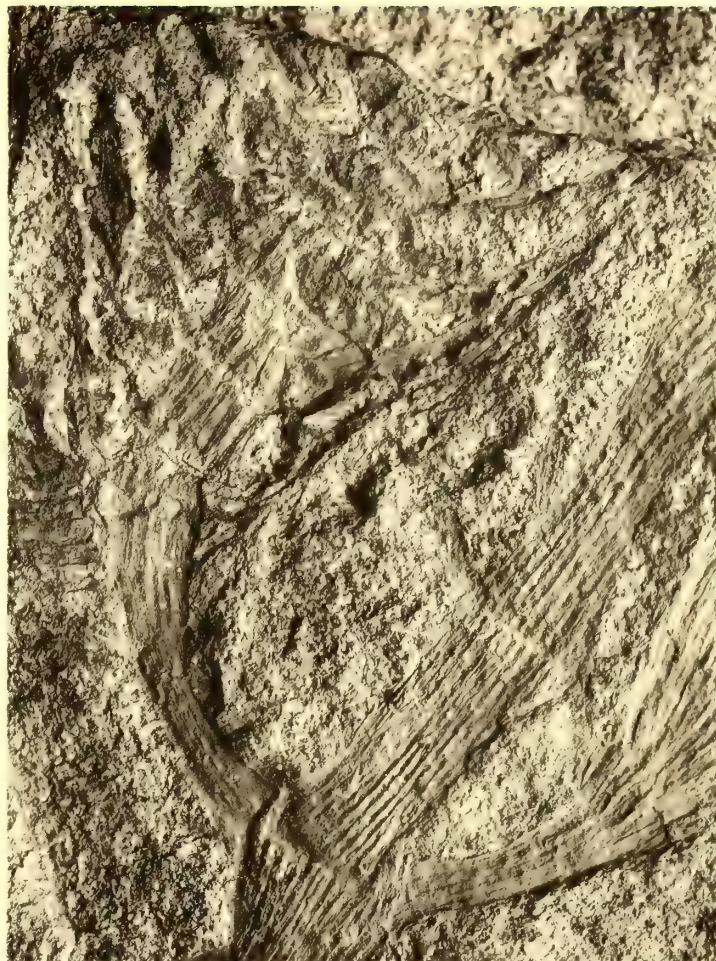
*Antropus
longifolius*



C. latifolia



2

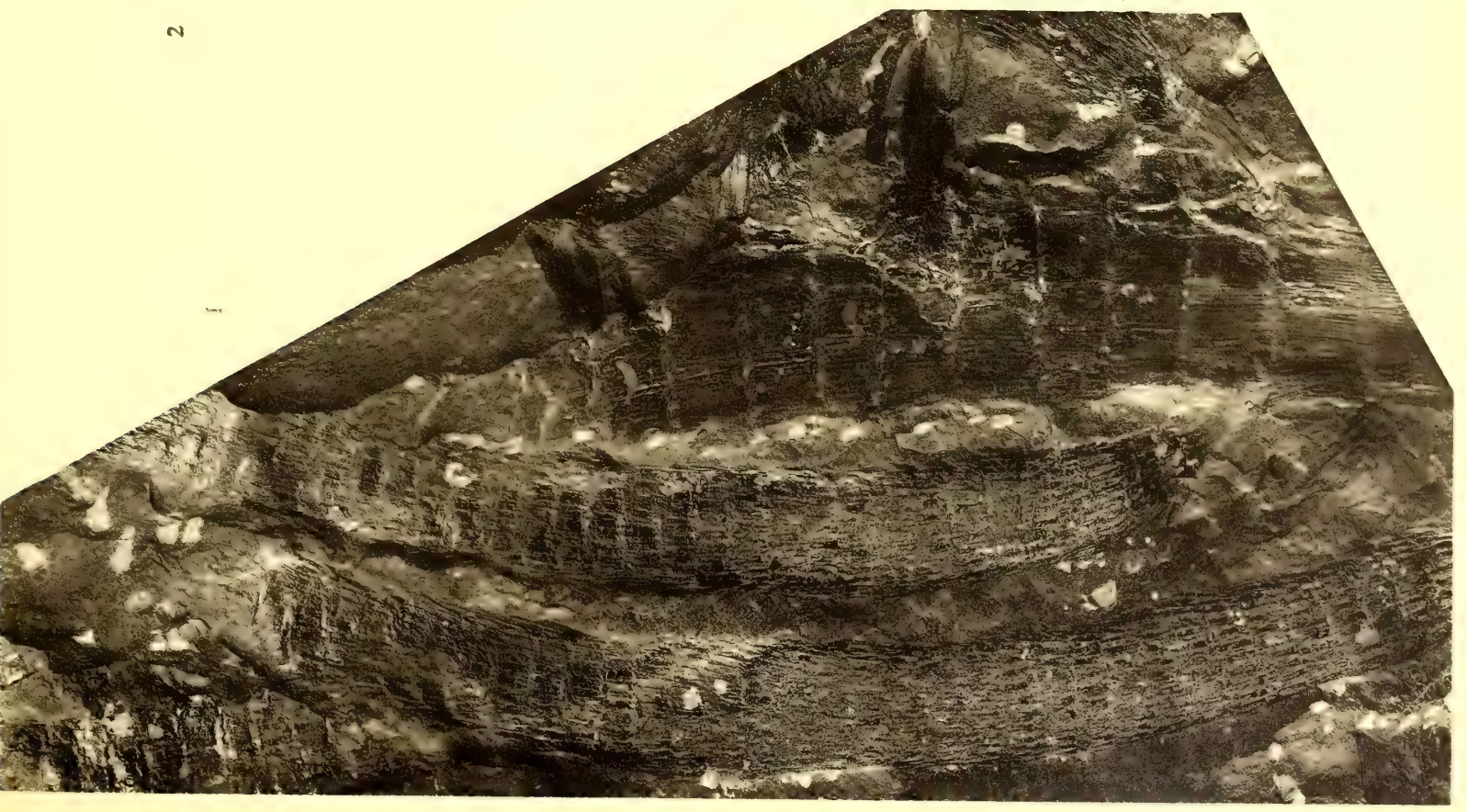


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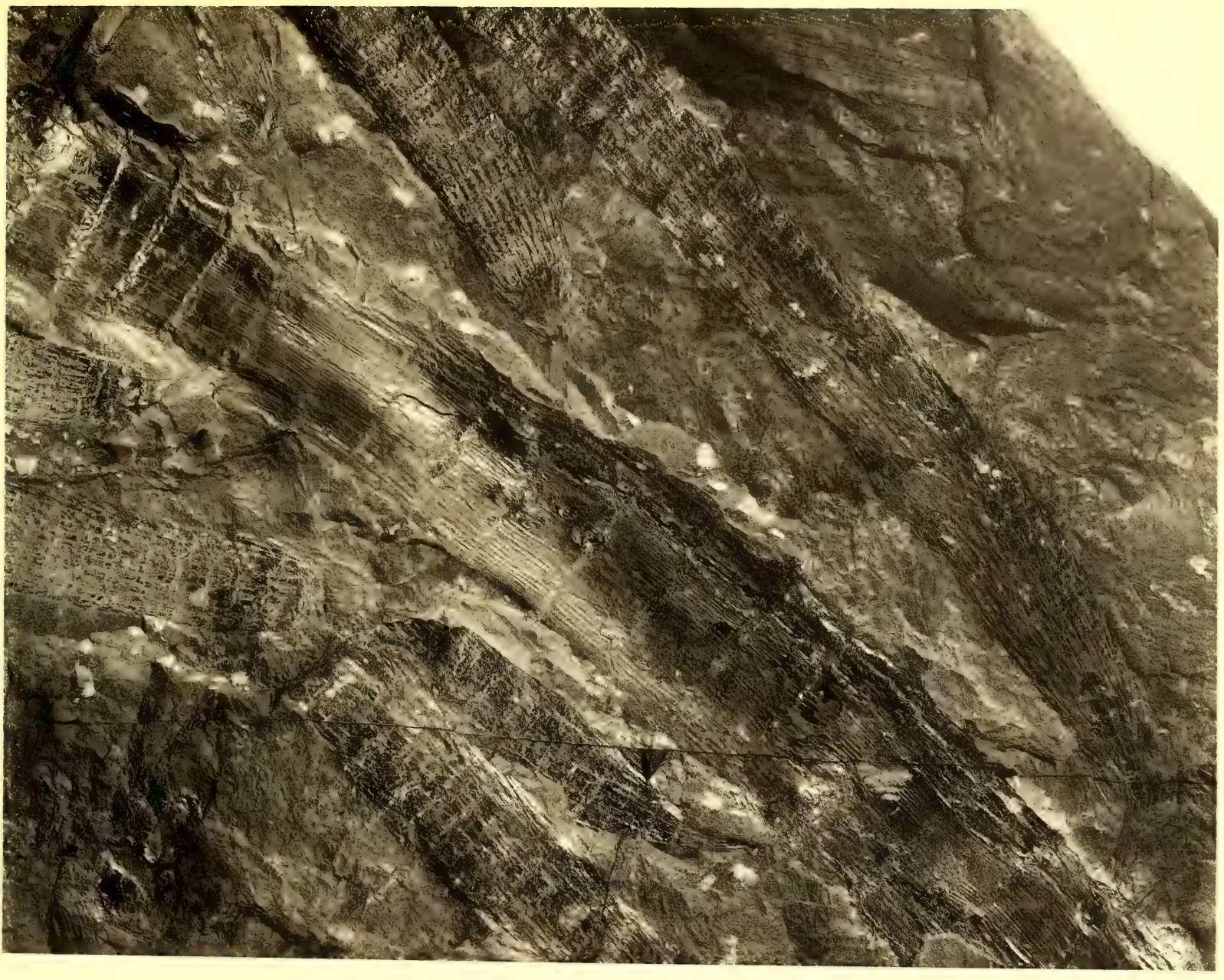


1

C. rectulige Stur.



1



2

C. ...



2

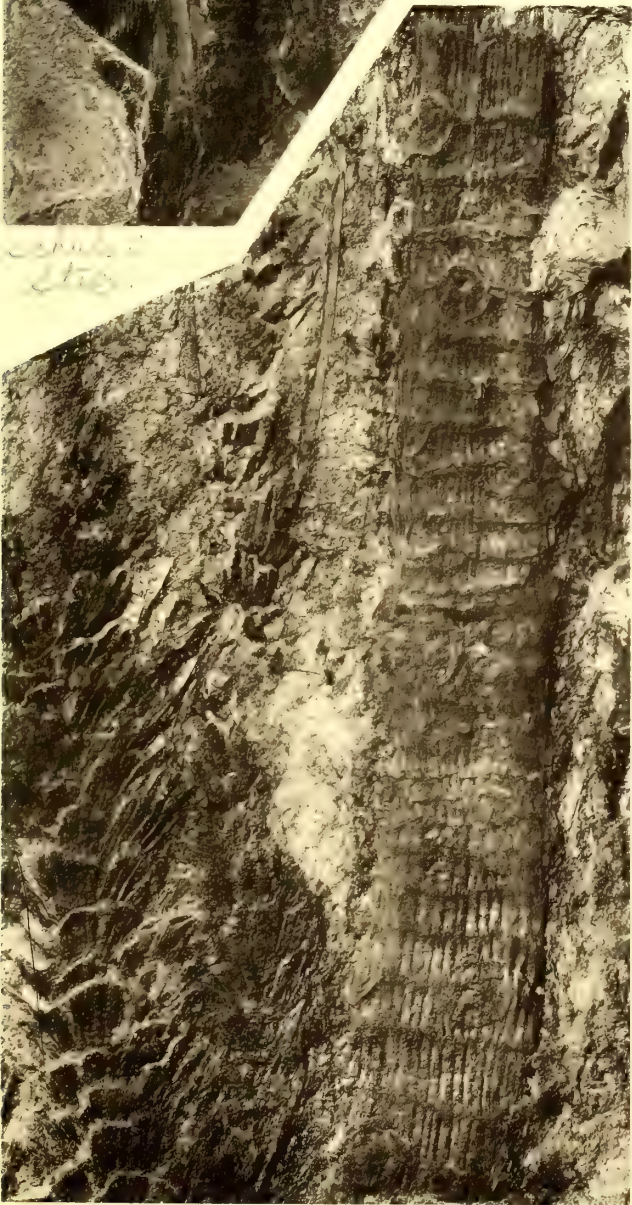


1



4

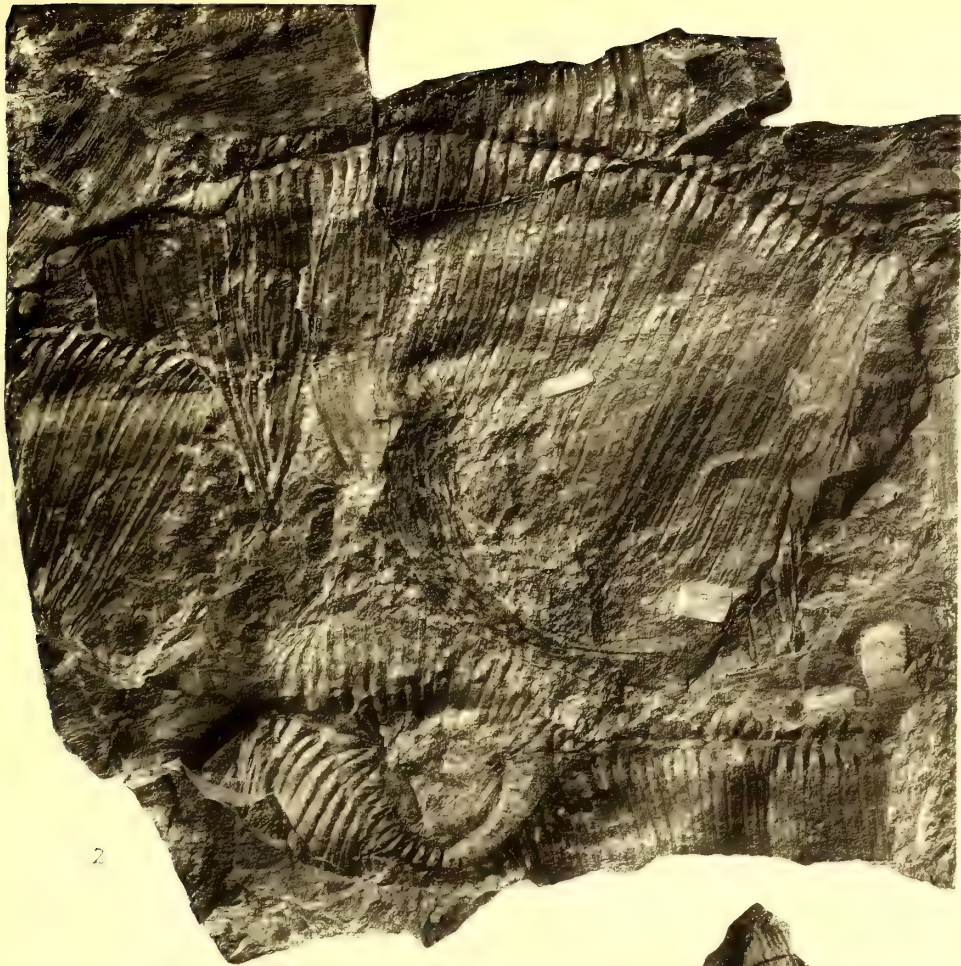
C. ...



3

5

C. ...



C. carinata Strob. 1-4

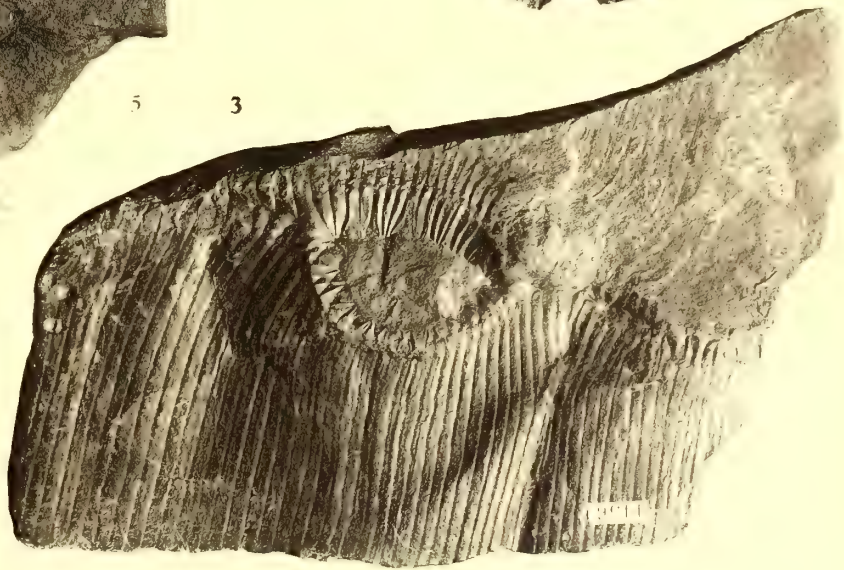
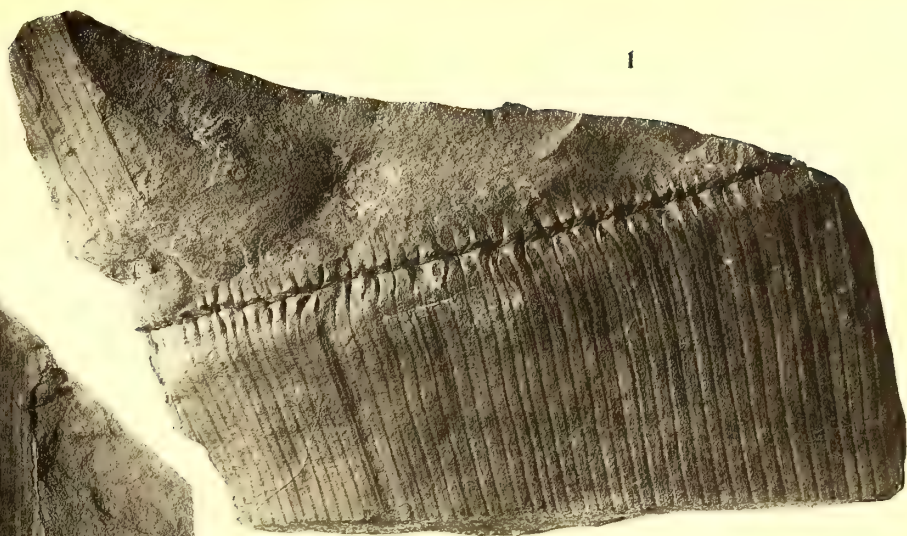
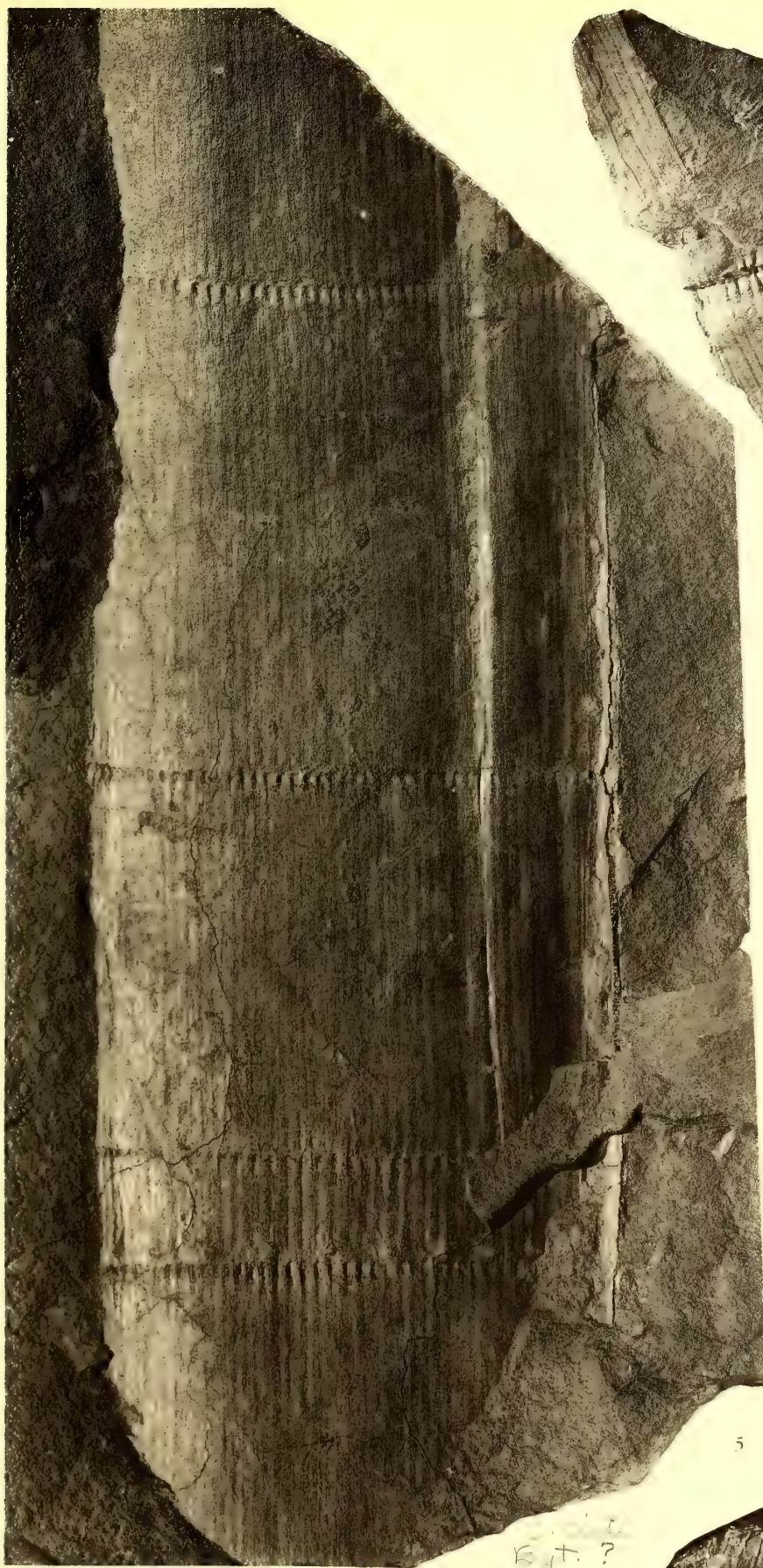


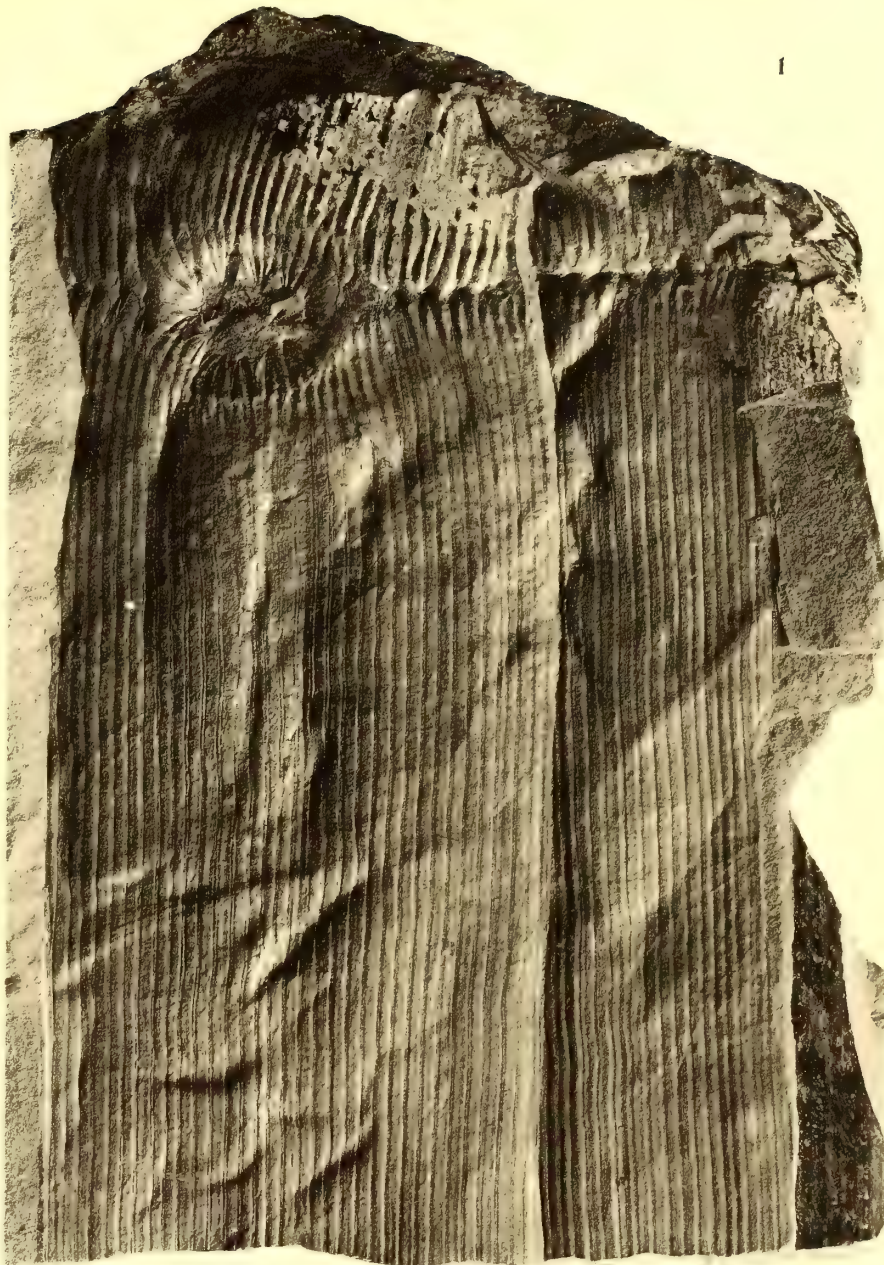
Fig. ?

C.

2



1



3



C. carinata Stenb. 1822.

C. carinata Stenb. 1822.





2



1



3

Handwritten text, possibly a title or specimen name, partially obscured and illegible.

1



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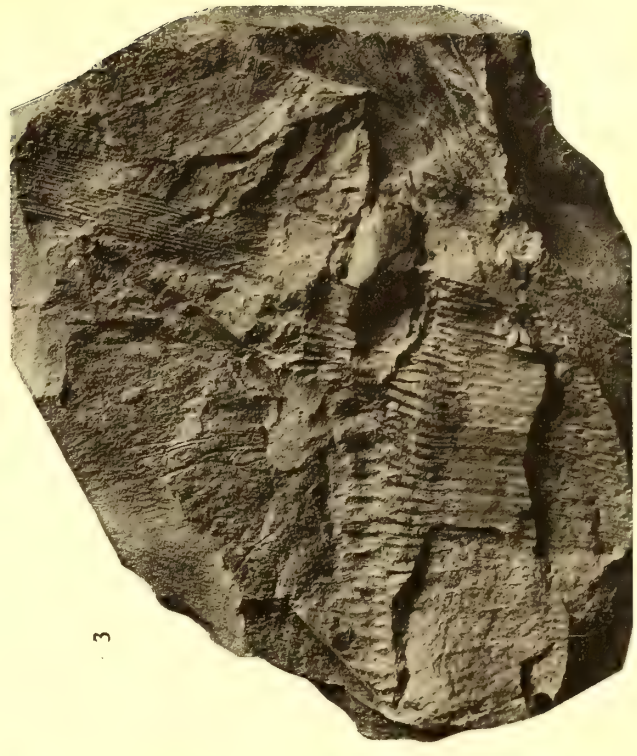
C. pubescens Steen.



1



2



3

C. palustris

2



3 1



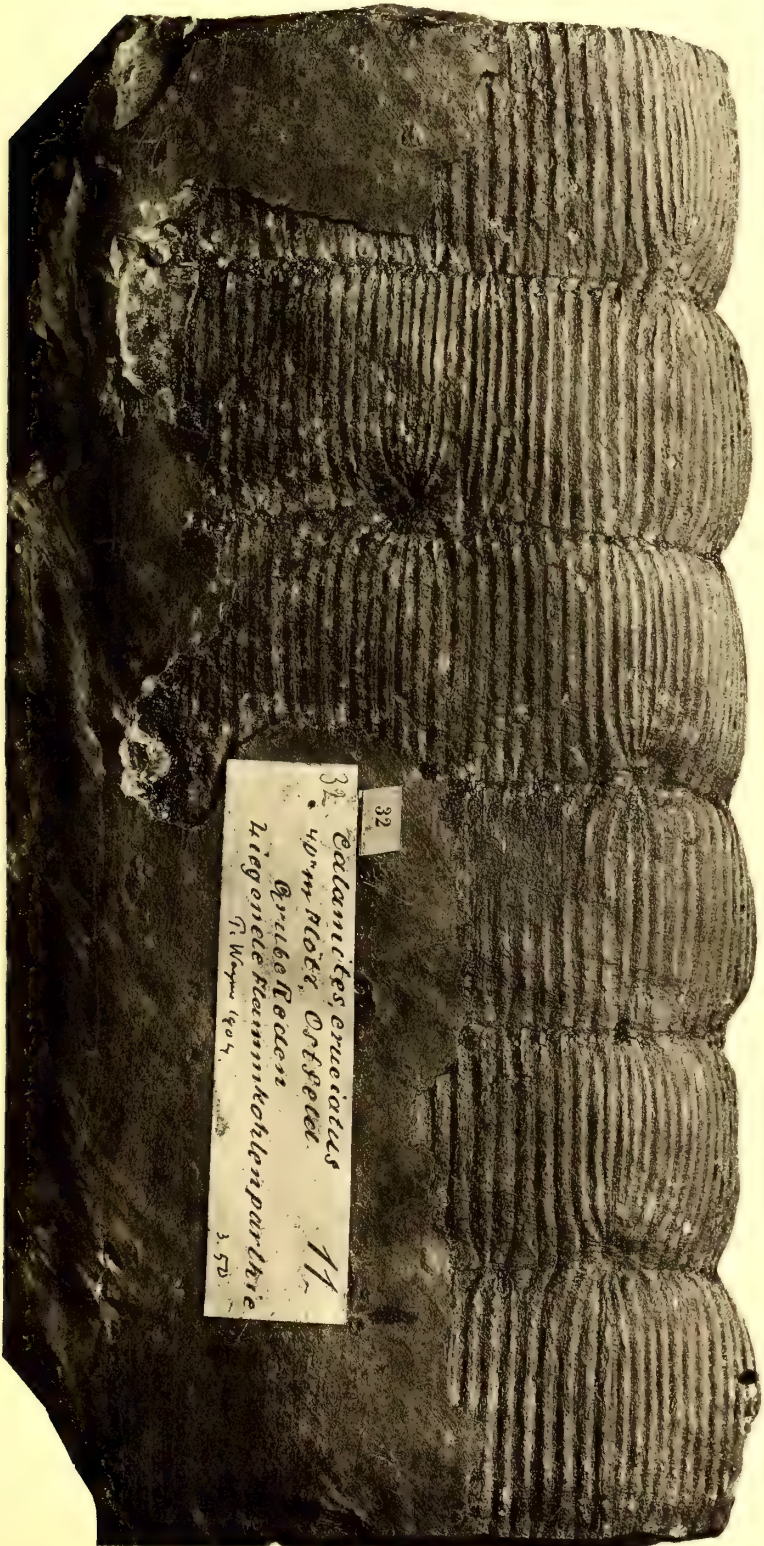
C. paleocoma Steen. 12



1



2



32
32
Calamites emeiatius 11
40m. Flora, Ostpreu.
Gribo-Rodan
Niegelse Hammhohlenparthe
S. Weym 1904.
3. 50

4



3

C. emeiatius Steen. 12

C. palustris Stern

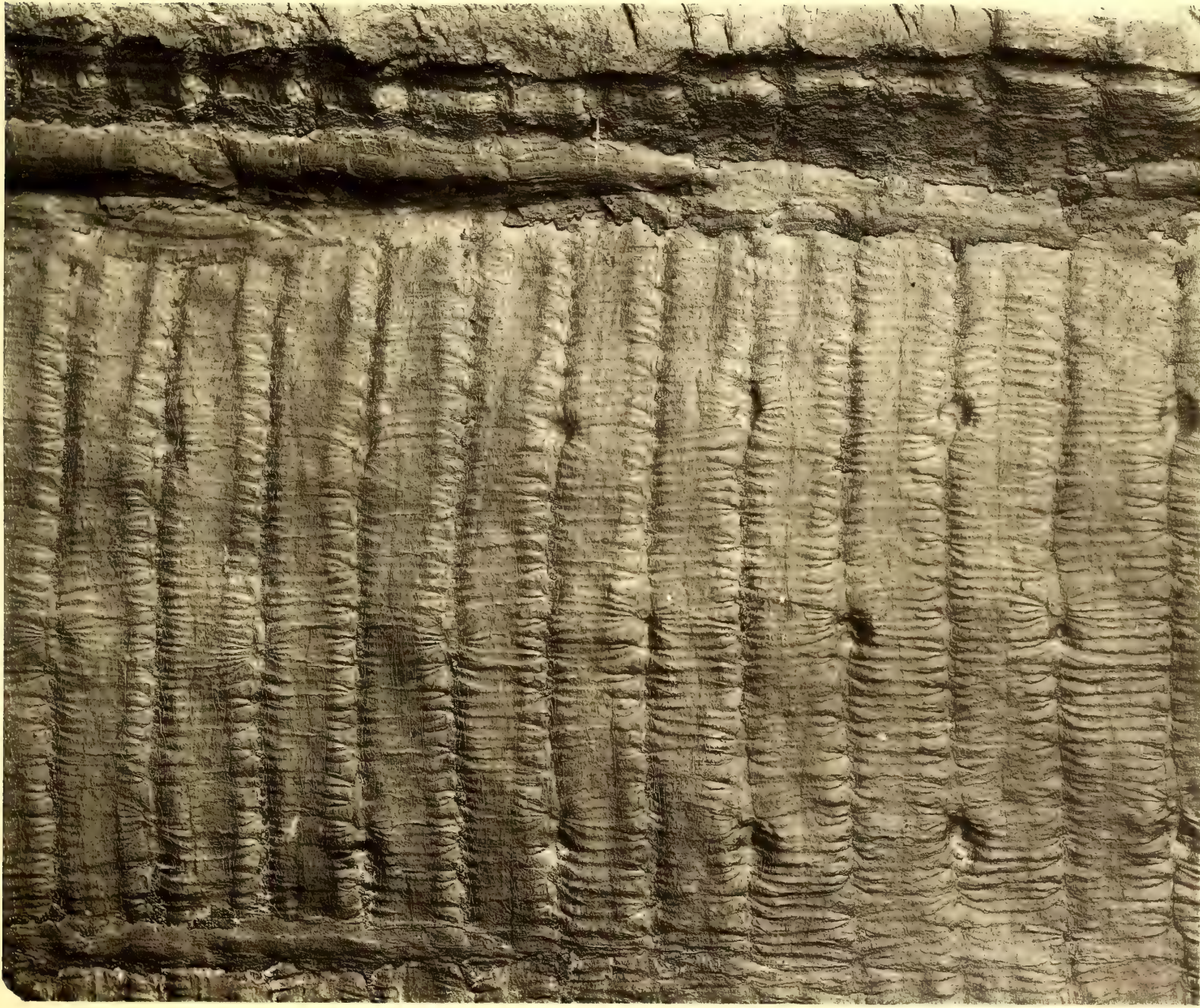


C. rusticus Stern

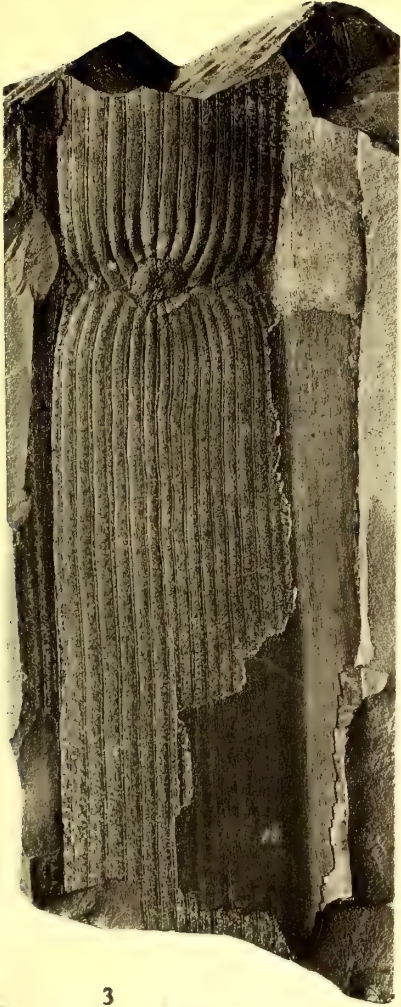
C. palustris Stern
Phototypie L. van Leer & Co.



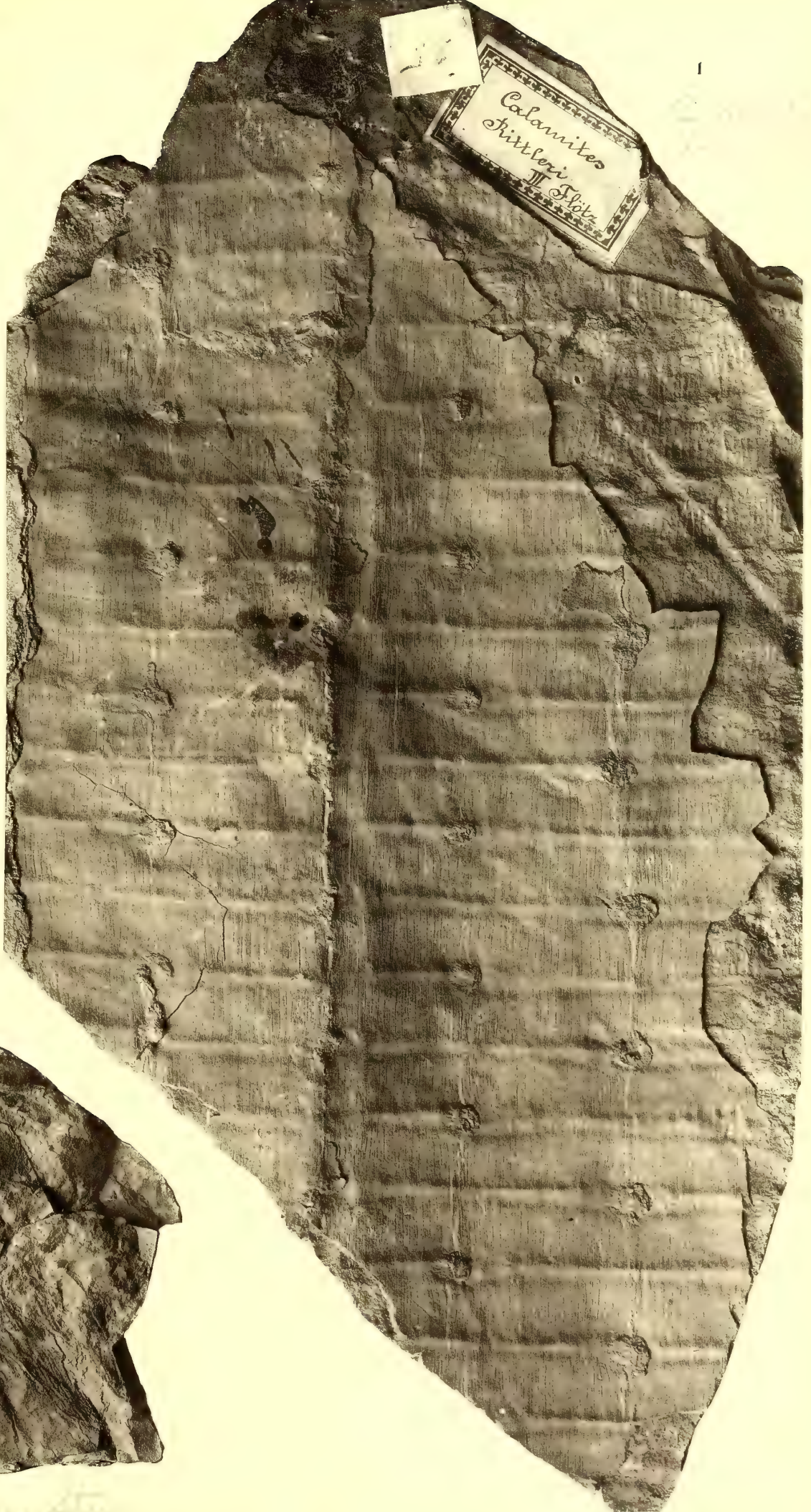
1



2



3
C. variata
Tomb. 1881



1

Calamites
Hittleri
III Flatz



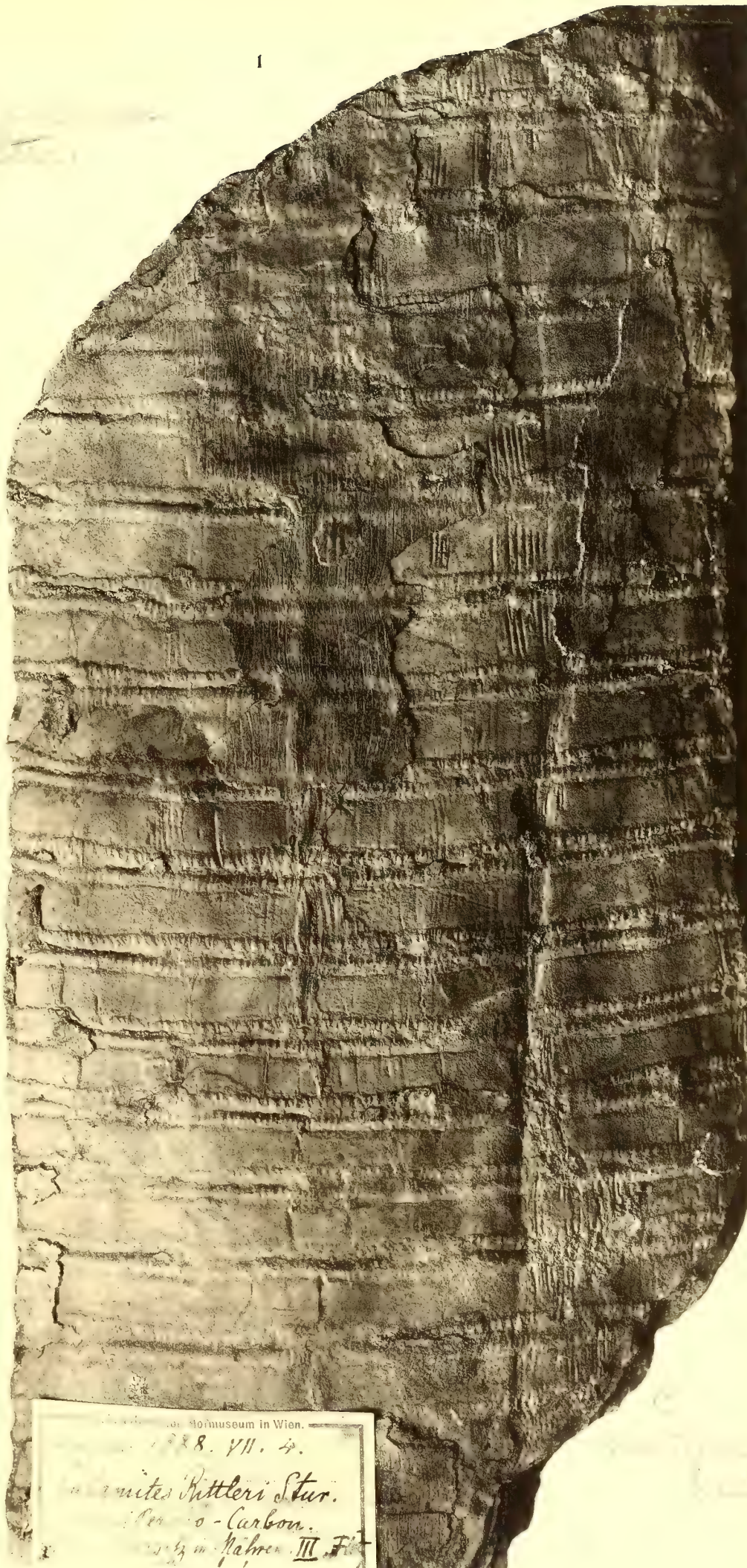
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C. paleocoma



2

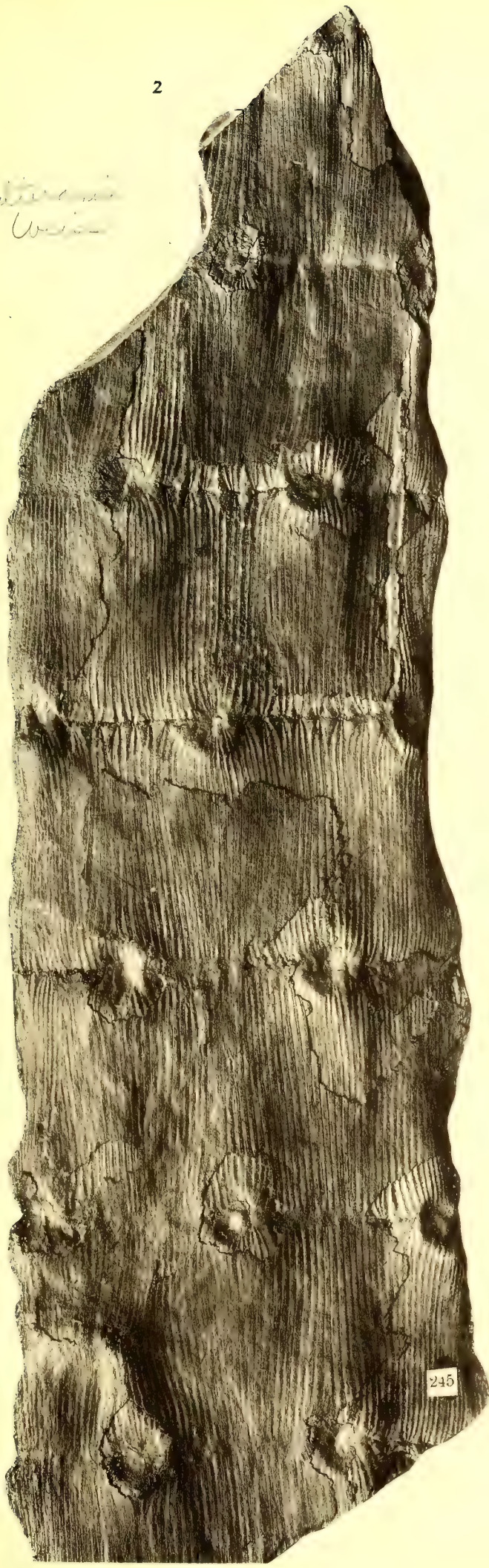
1



... Museum in Wien.
 1888. VII. 4.
Leptocarpus Rittleri Star.
 Pennsylvanian - Carbon.
 ... III. F.

2

C. multicaulis
Linn.



245

1





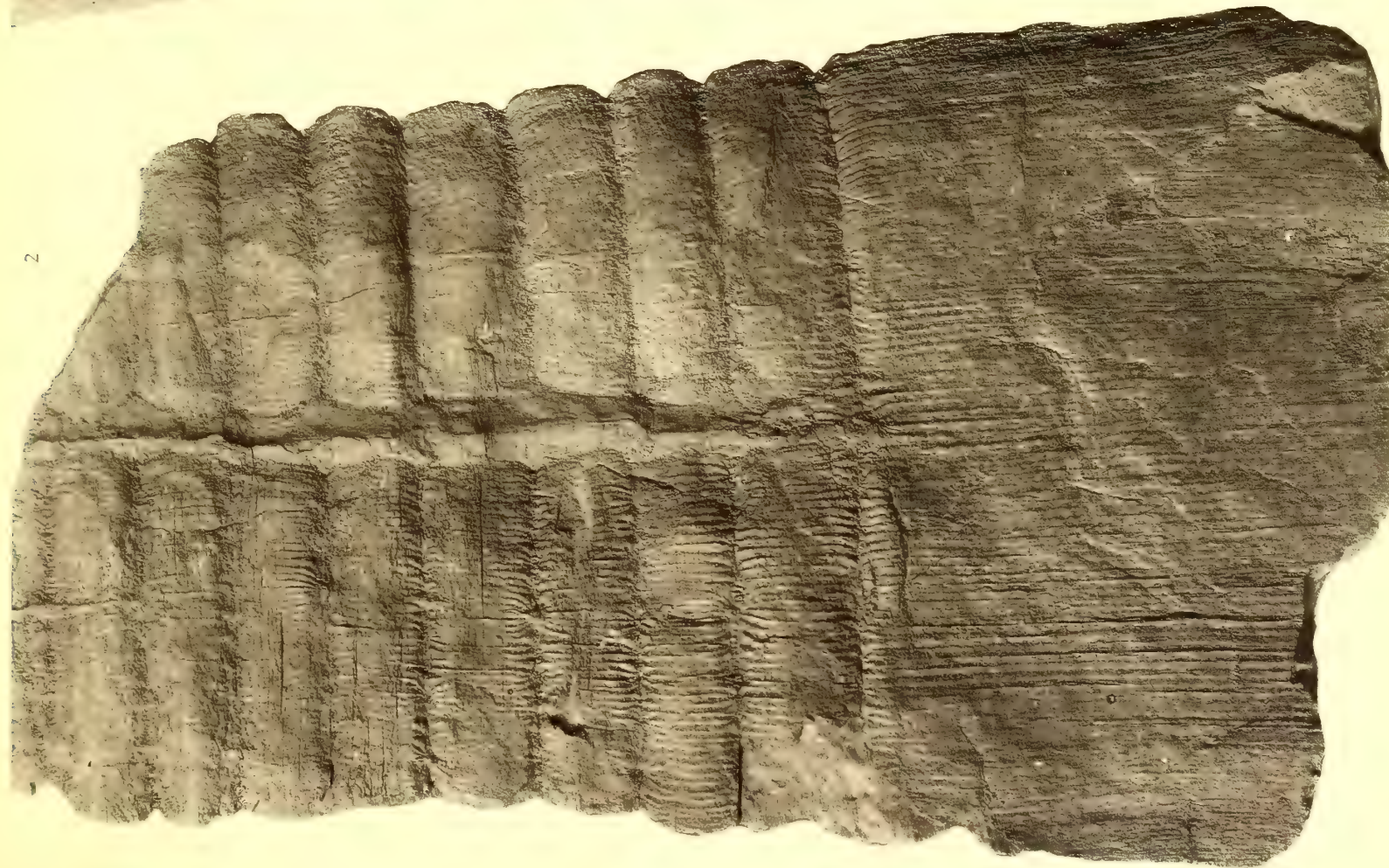
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Protomastix

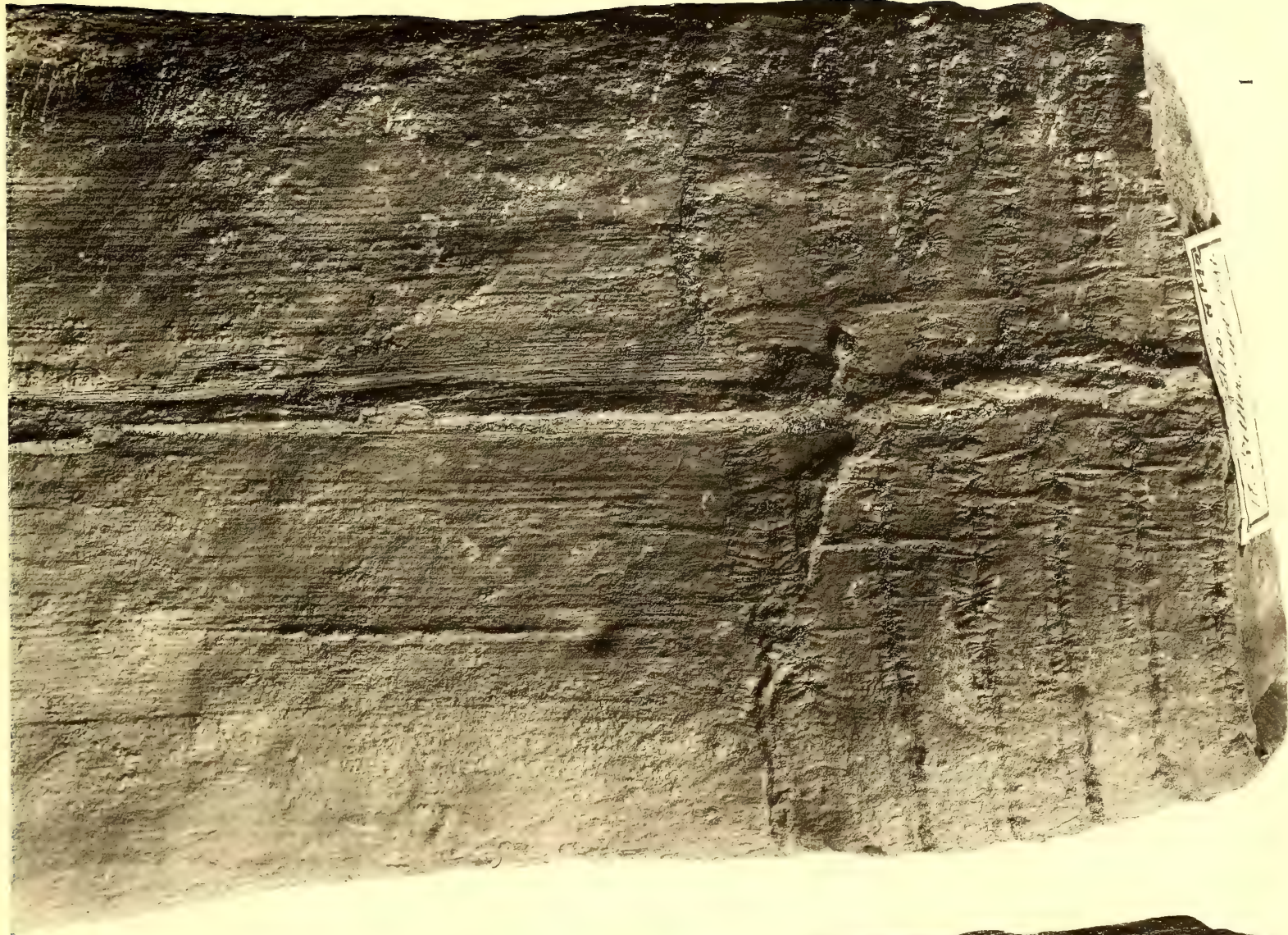


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C. multistriata

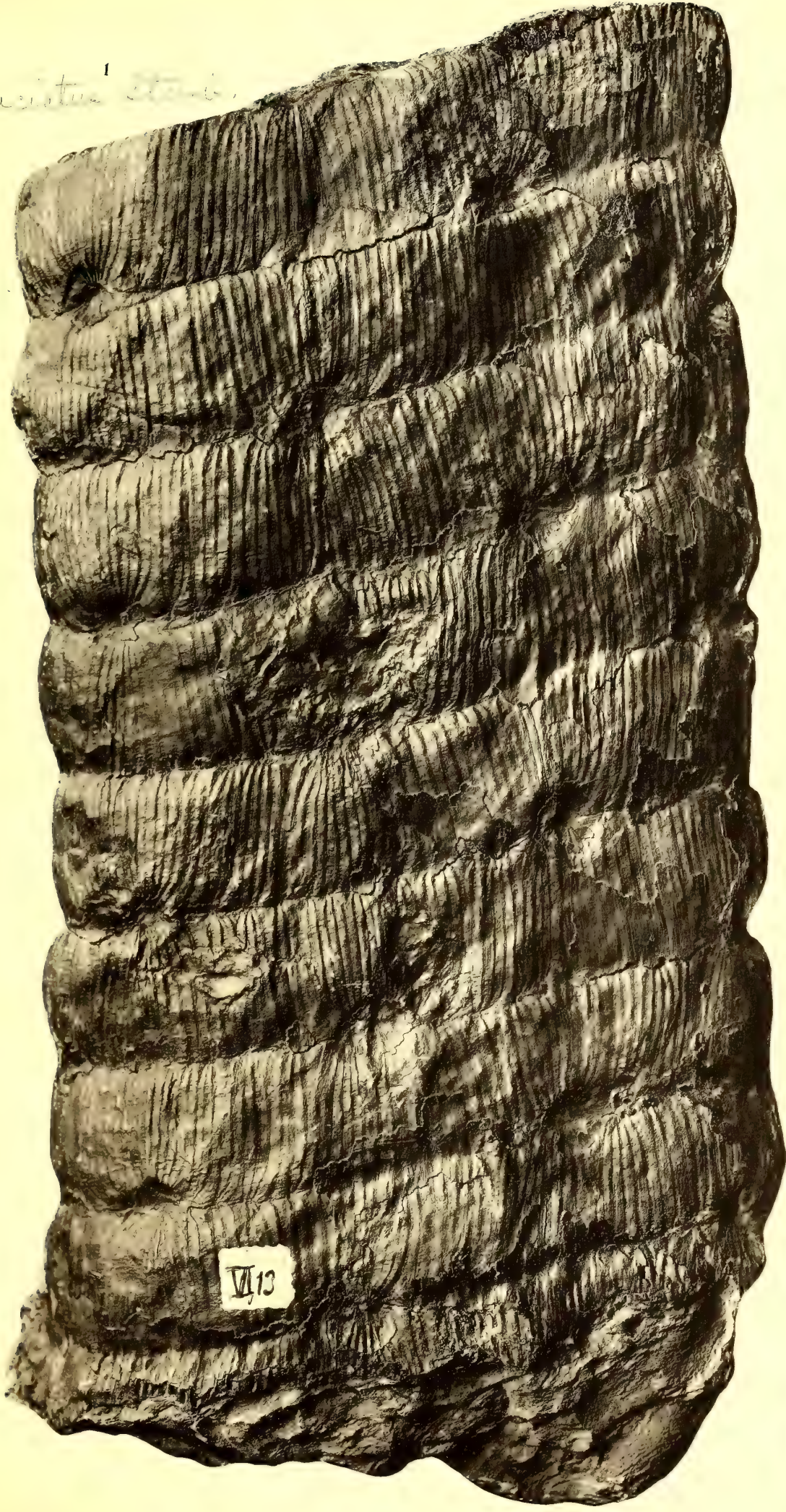


2



1
 C. multistriata
 P.L. 120
 1912

C. cruciatus Stand.



2

C. succulatus
Linn.



1



Ét. sup. des Mines
Paléontologie:
Calamites succulatus
f. conc. sup. Ter. quatern.
Mines de la Grand'Combe
1872

3



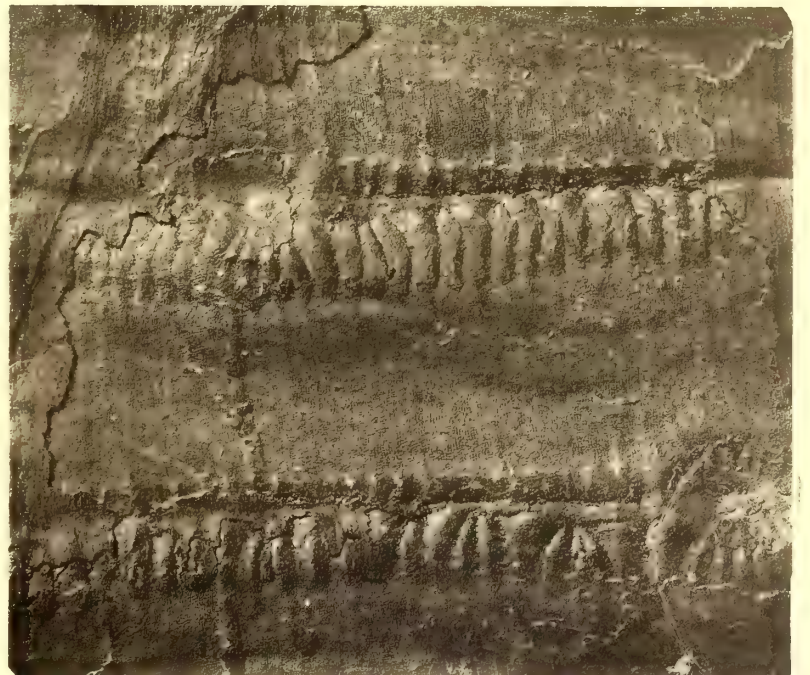
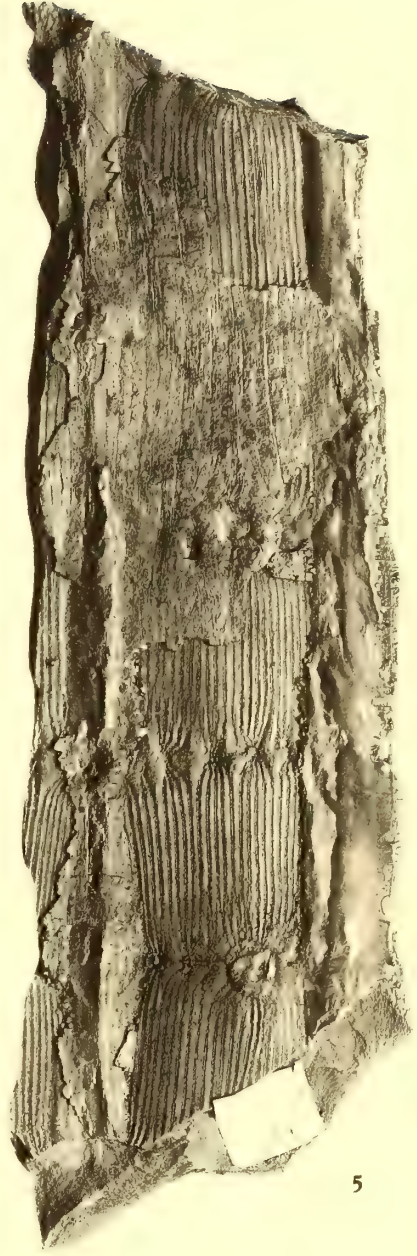
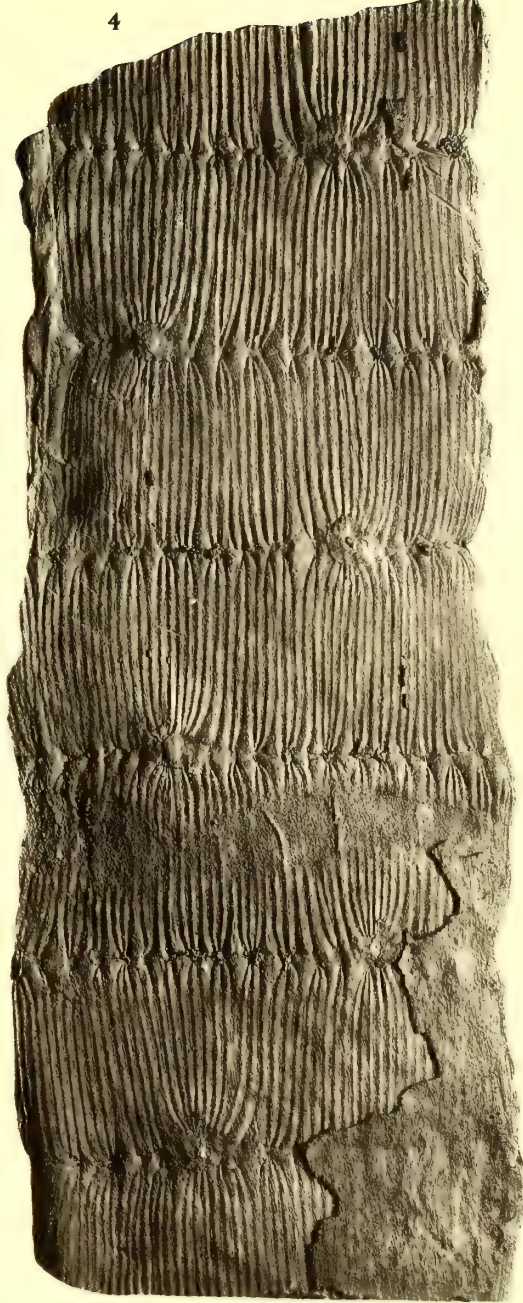
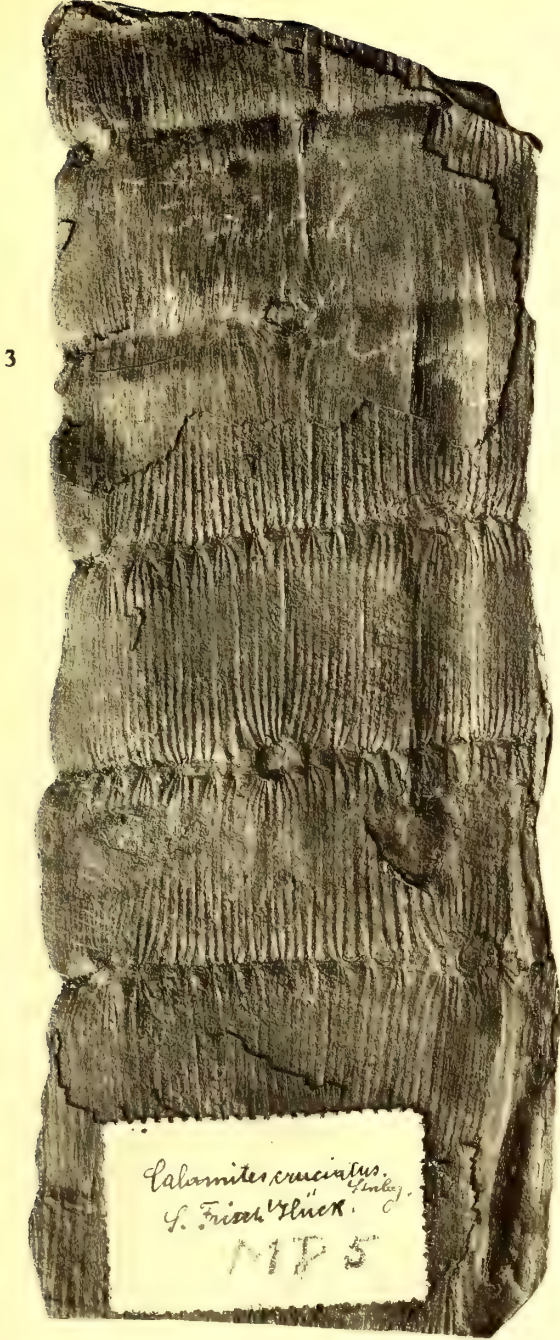
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Ét. sup. des Mines
Paléontologie:
Calamites succulatus
f. conc. sup. Ter. quatern.
Mines de la Grand'Combe
1872

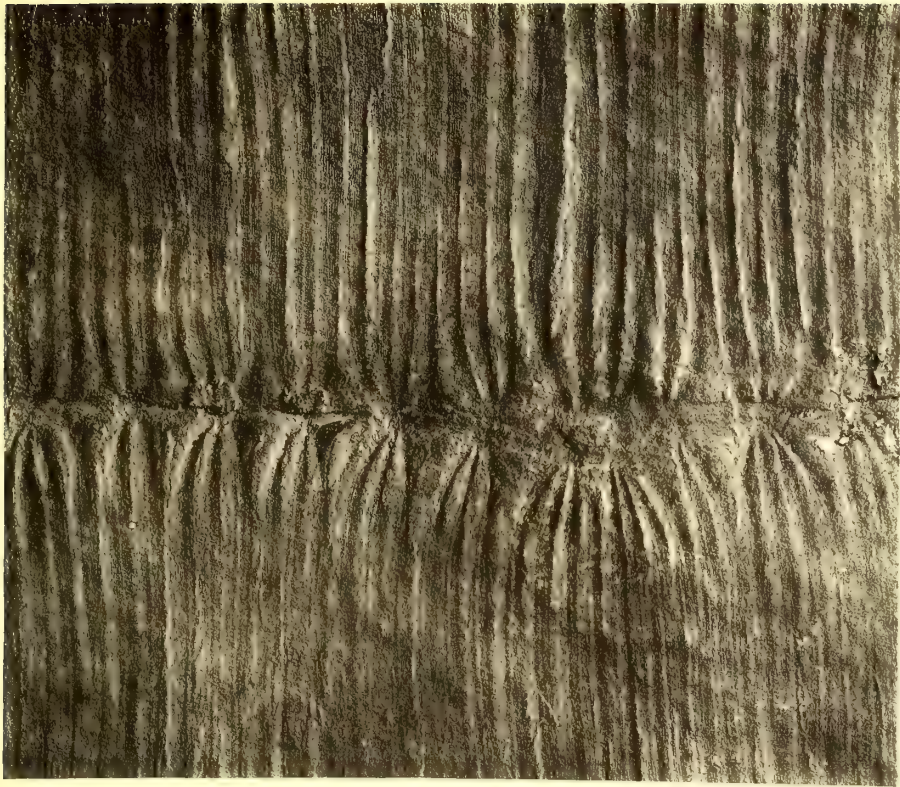
4

Calamites cruciatus



C.

3



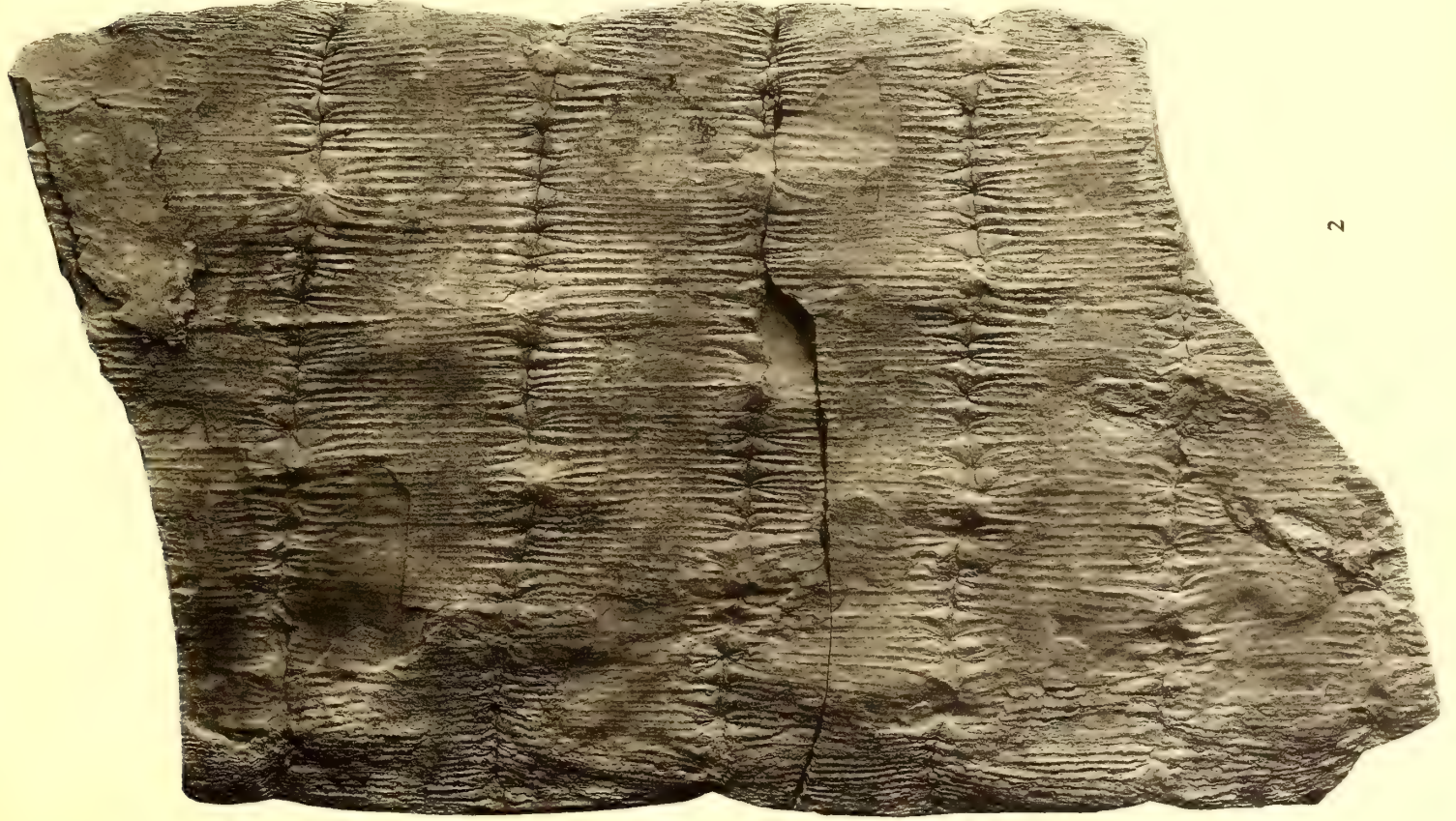
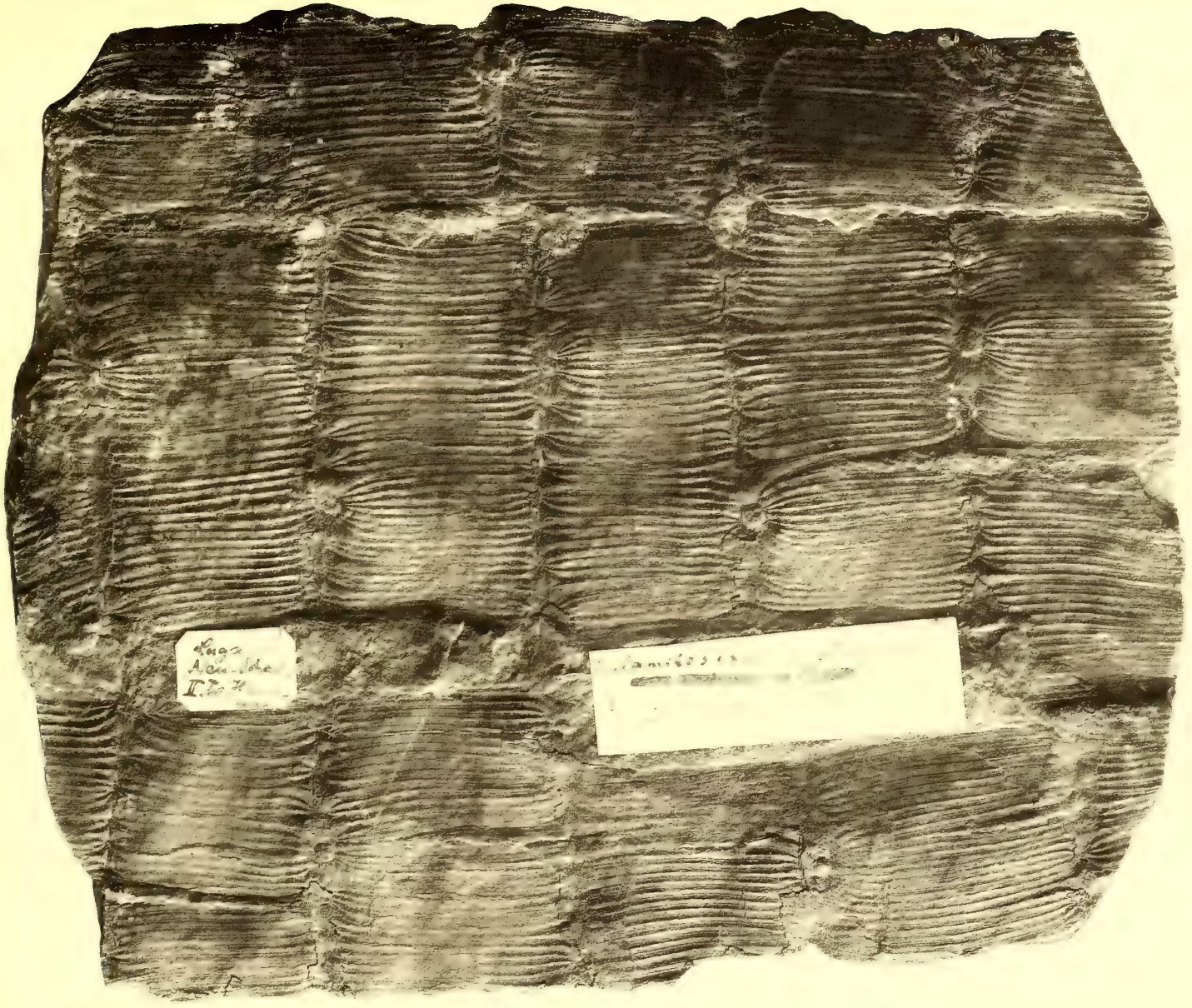
2



1

C. multiramis luviae

1



2

C. multistriata Wlbr.



1

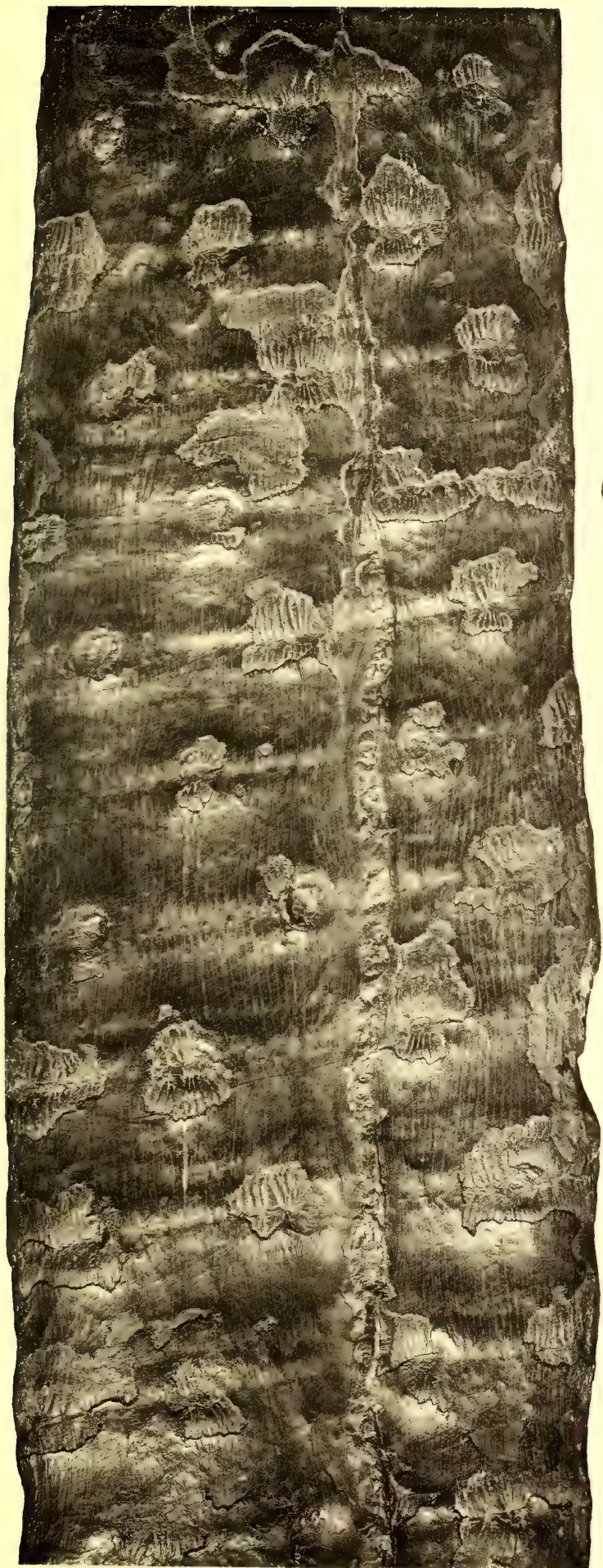


2

C. multistriata Wlbr.
Lith. von ...
Naturw. Semig. d. K. Chemnitz



101

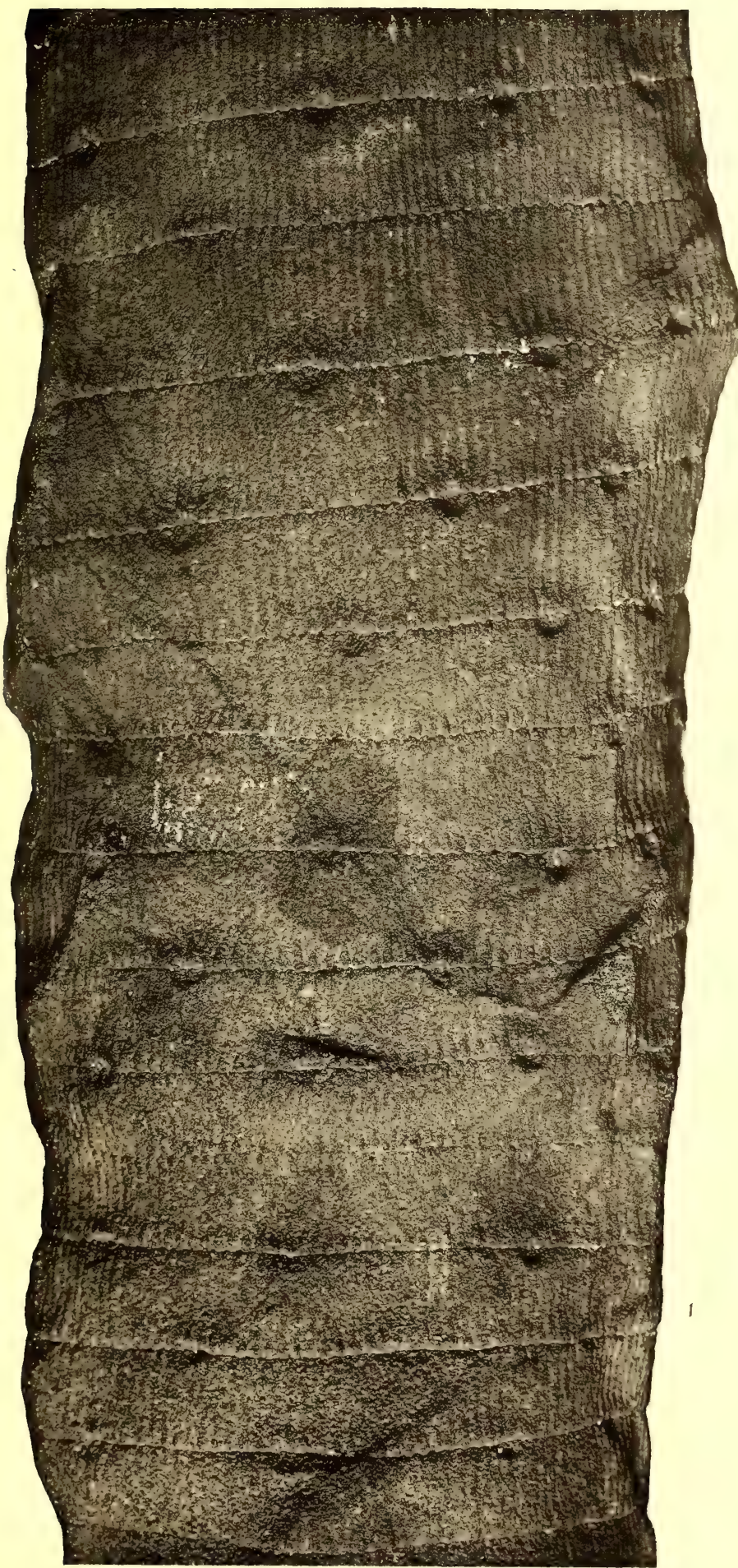


1
E. multivincosa Bosc.



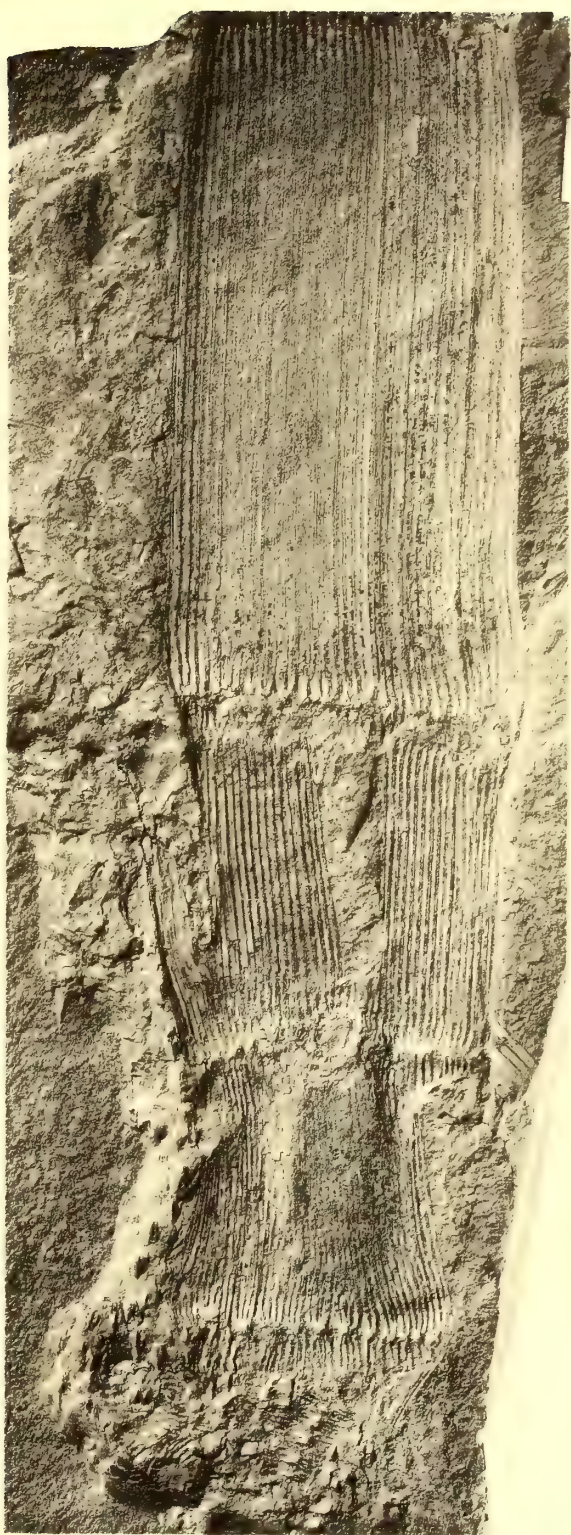
2
E. longipora Bosc.

C. striata Rued.



1

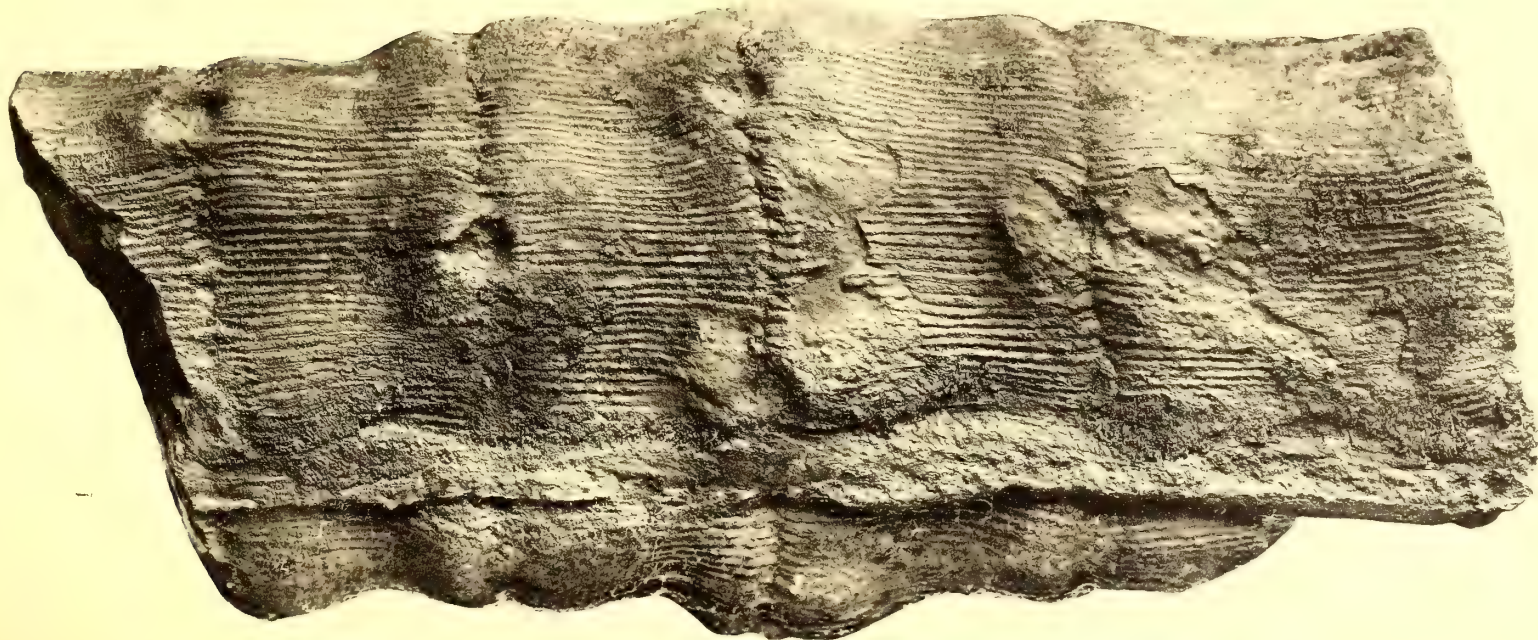
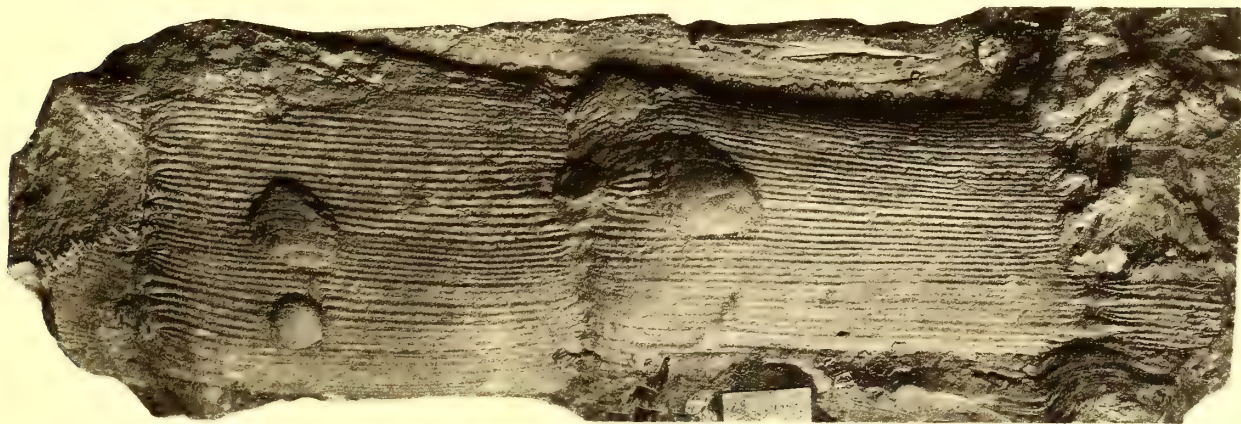
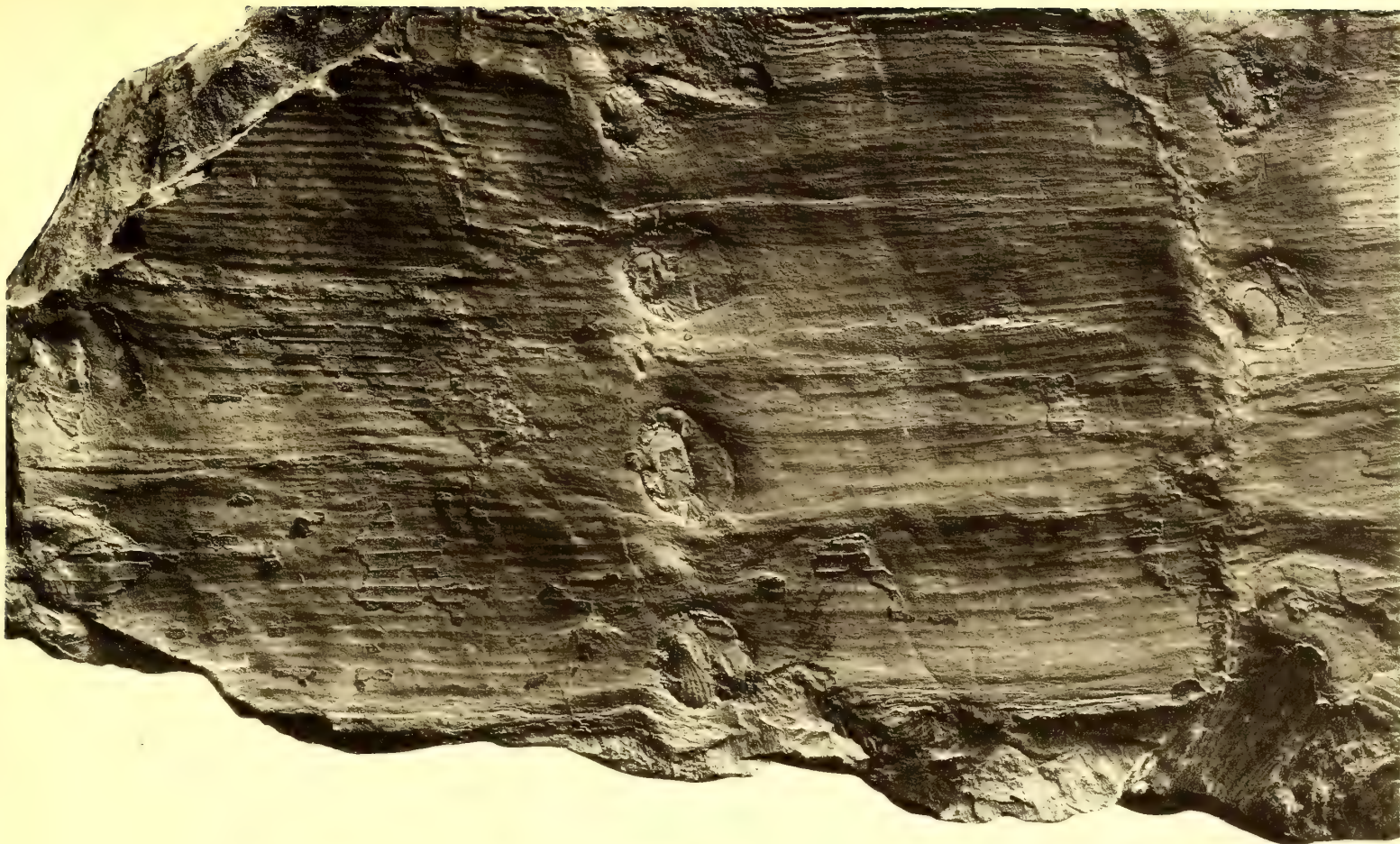
C. bronzevoti Rued.



2

3

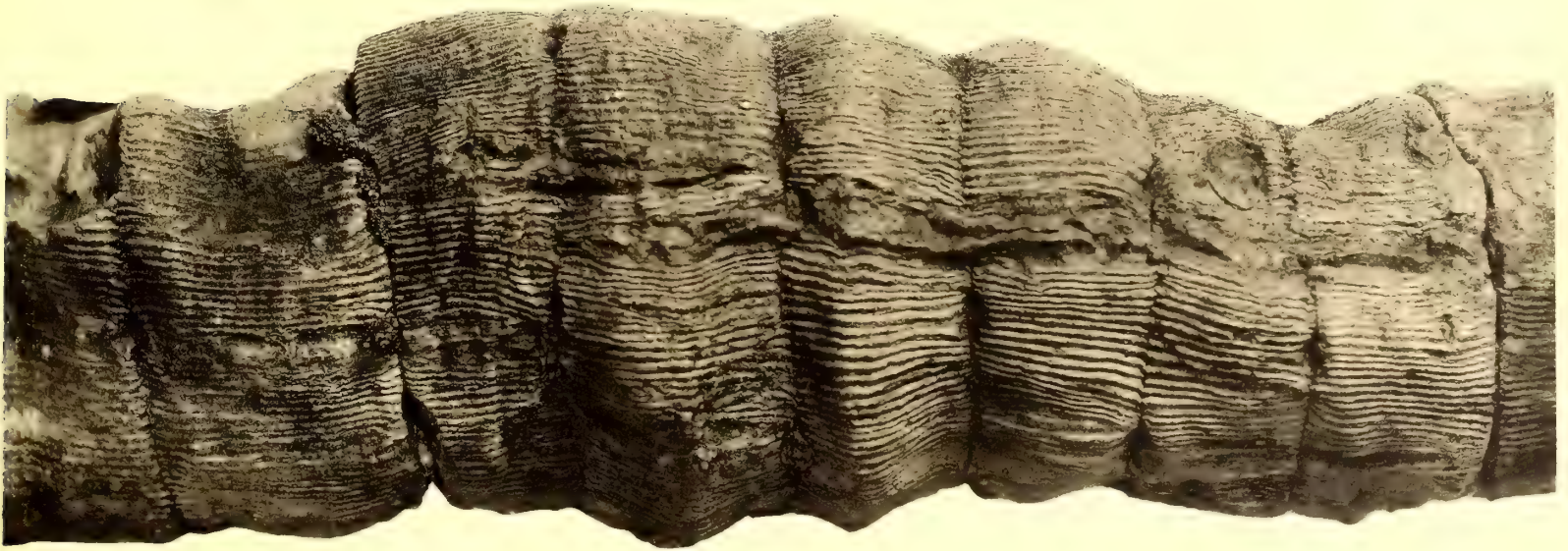




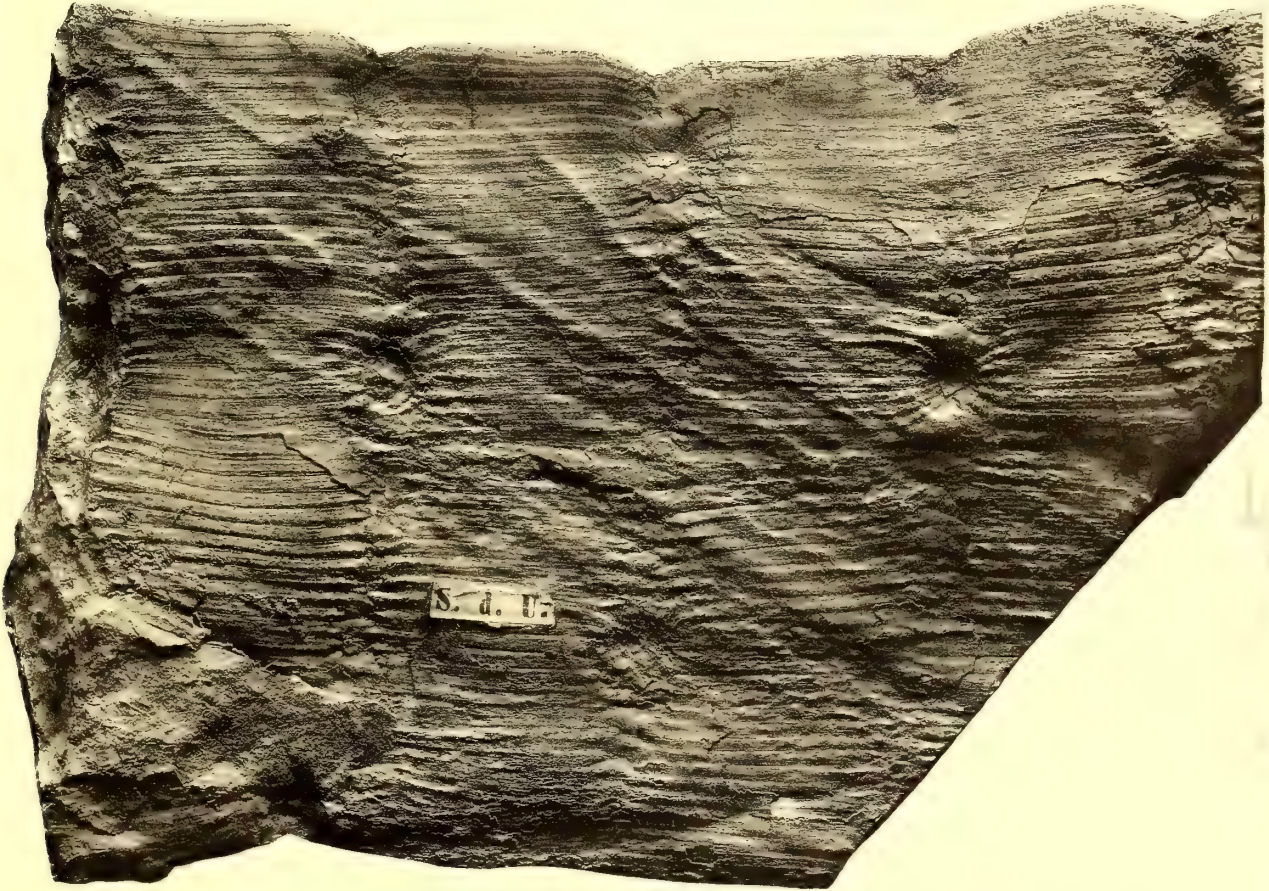
C. cuneata Strob. 130

130

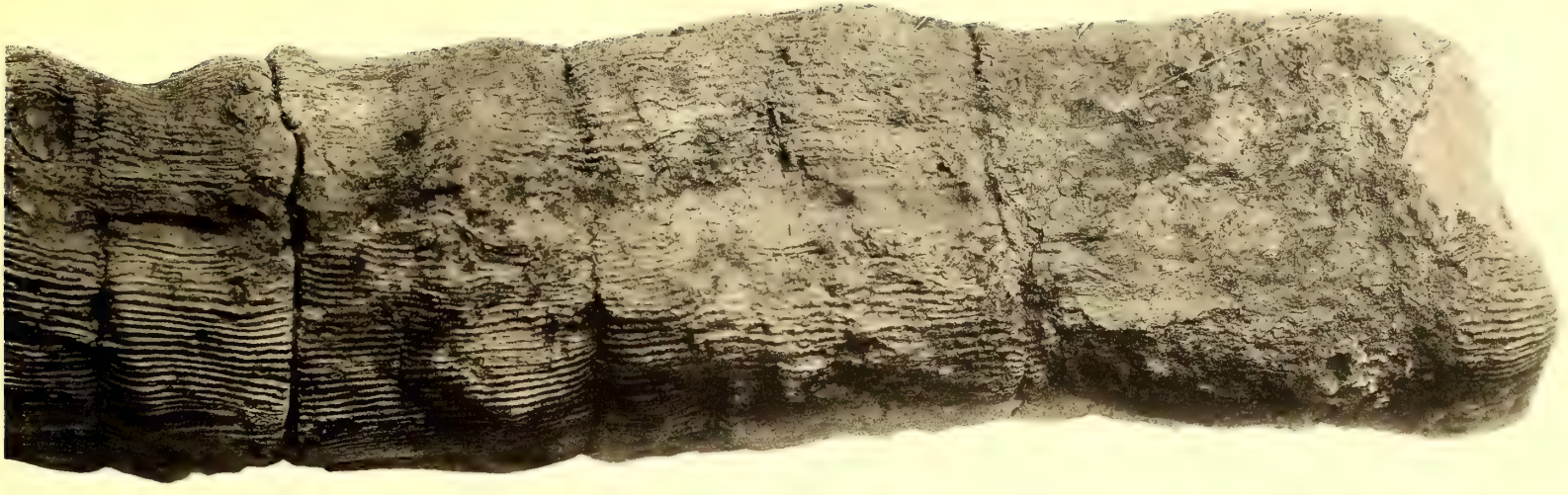
Conferva Sulphur 212



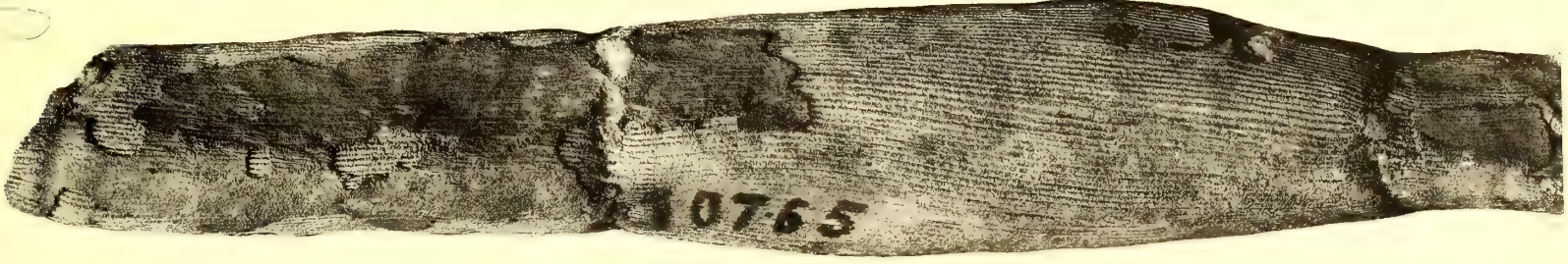
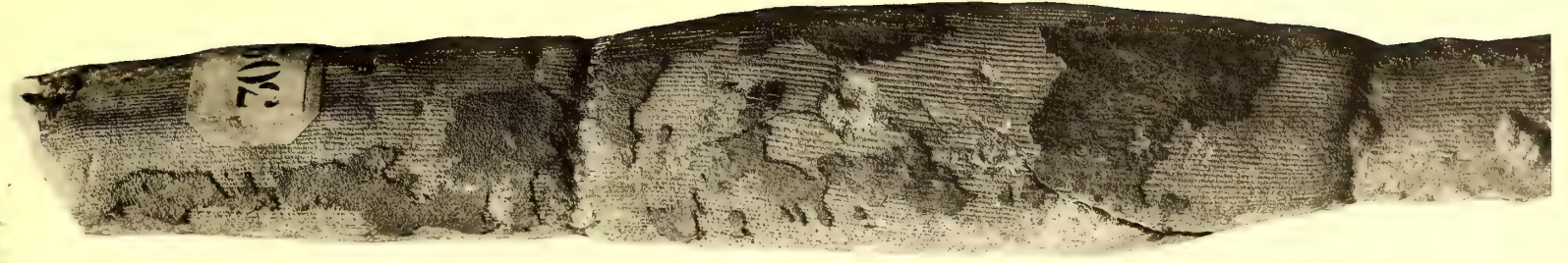
2



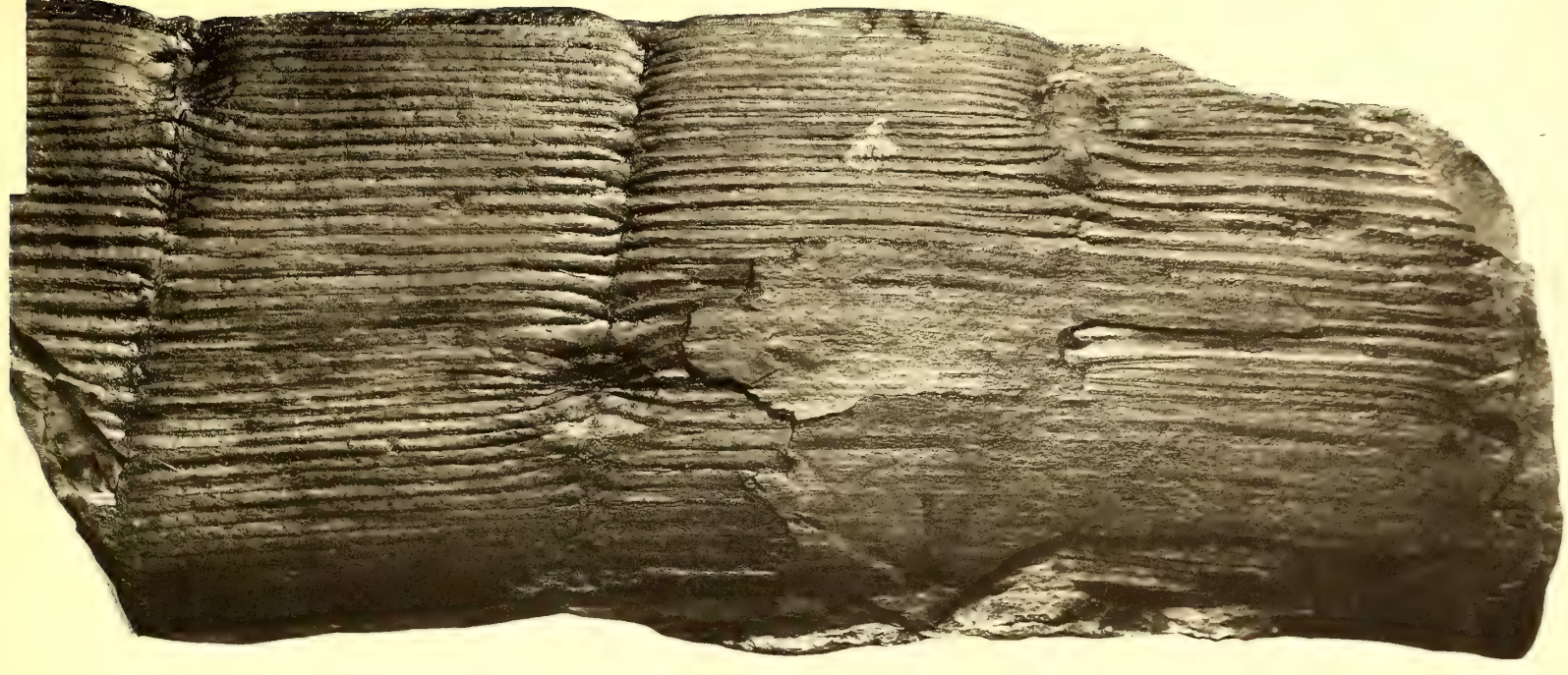
S. d. U.



Calyptus Pennell



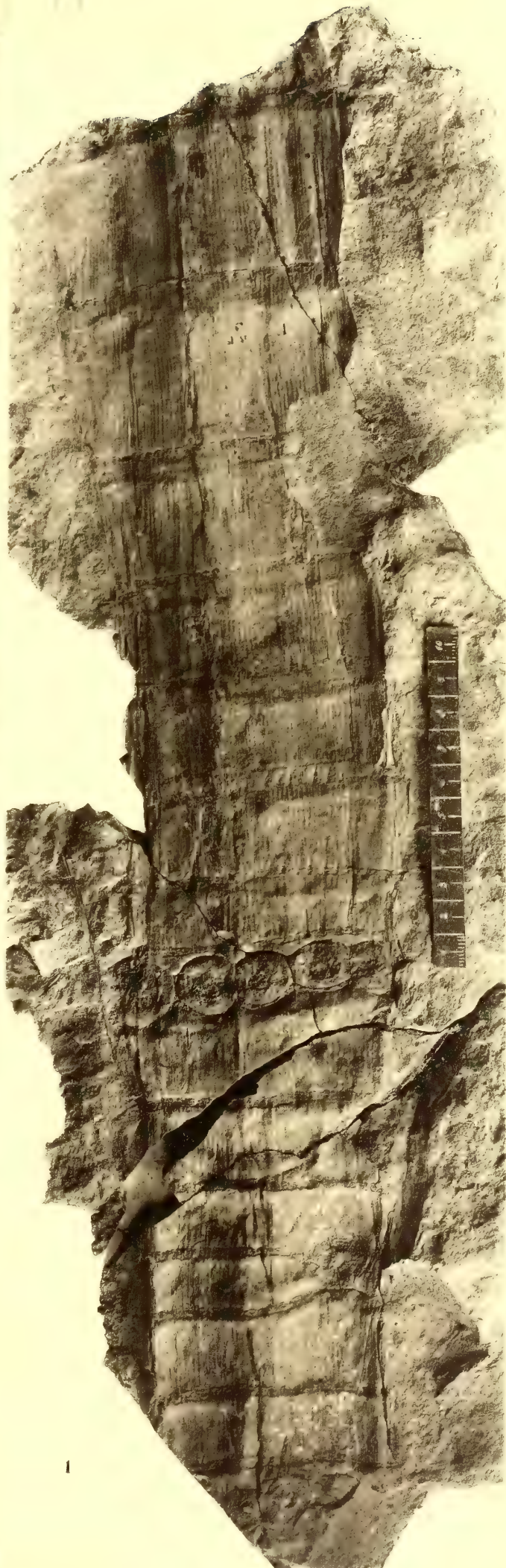
C. elongatus S. H. W. 2. 3.



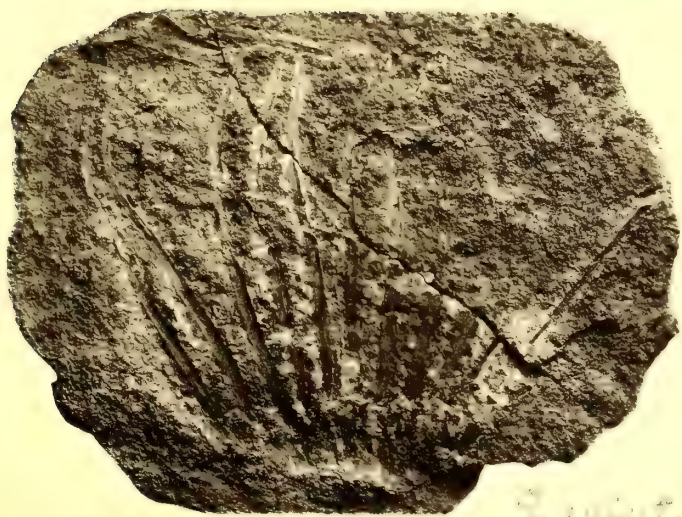




2



1



3

Sphenopteris
L. Van der Zanden

C. ...



1

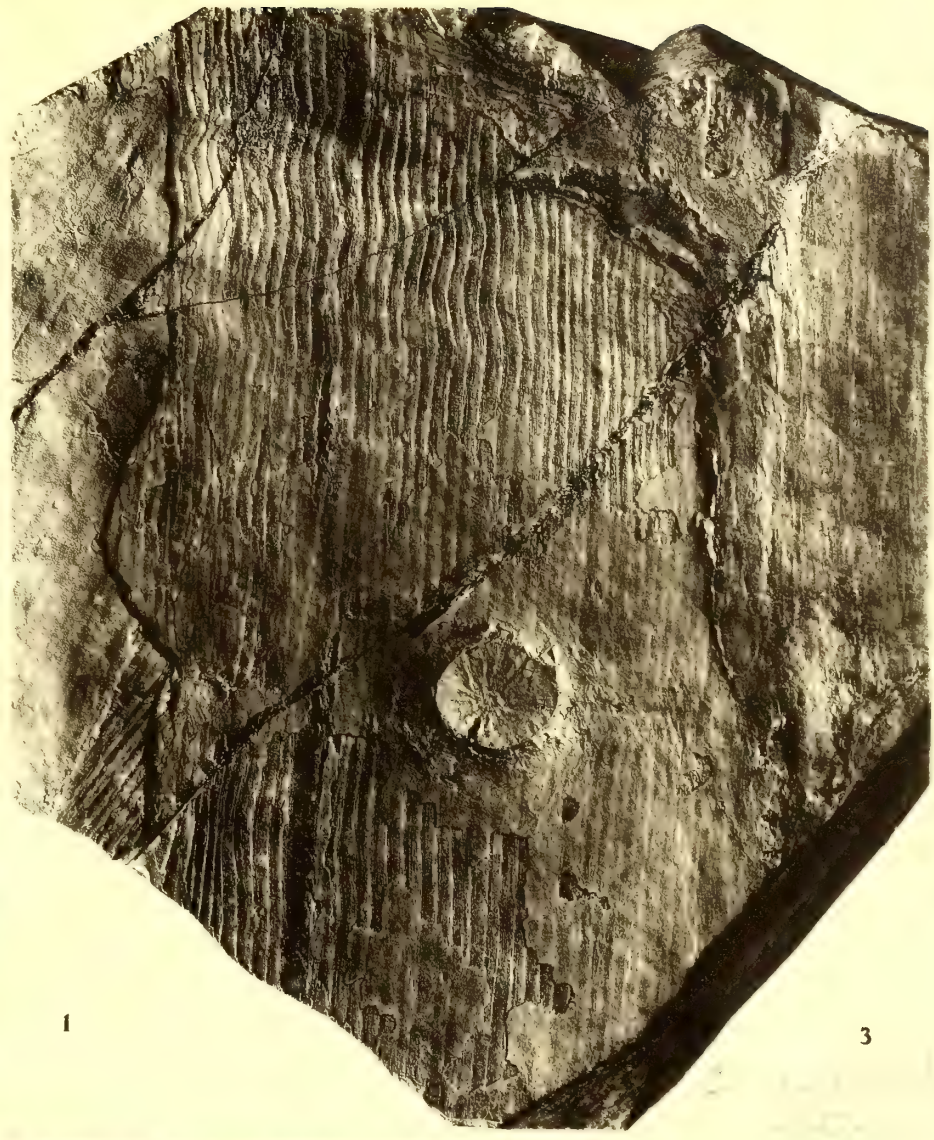
C. ...



2

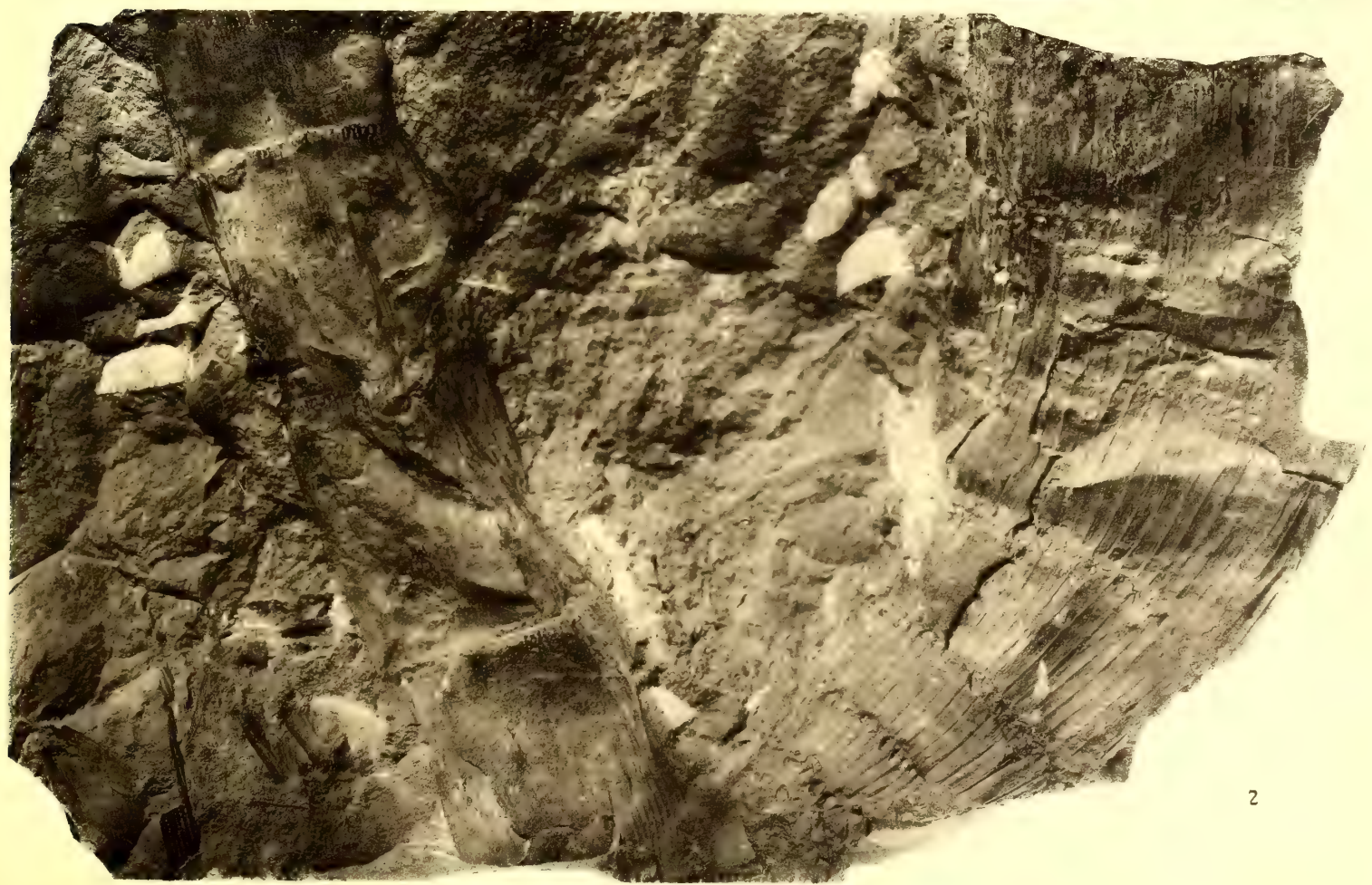


3



1

3



2

C. glomerata Linn.



1

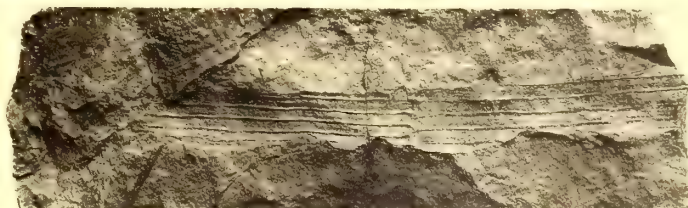
2



3



4

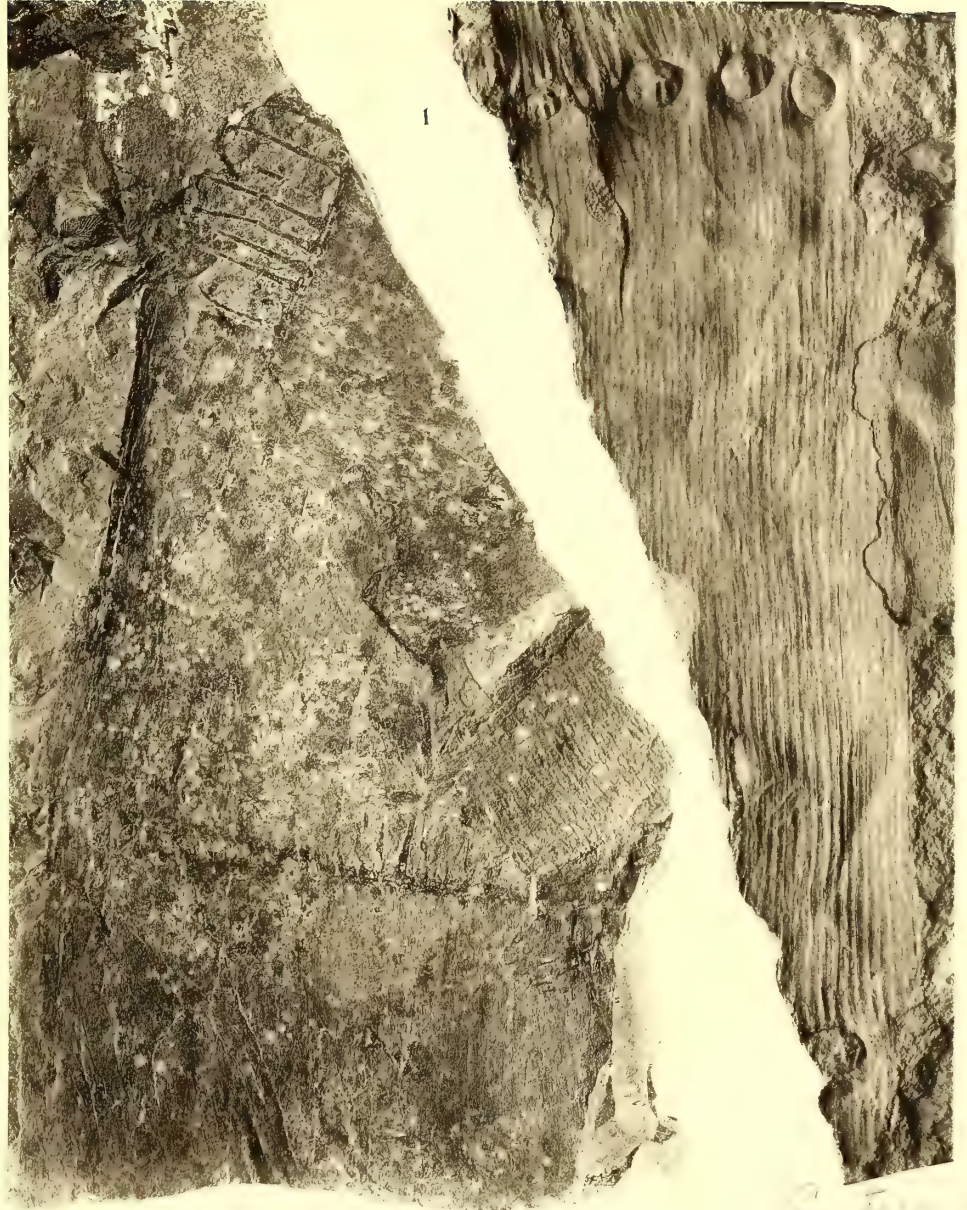


B. minuta Gussone et al.

B. minuta



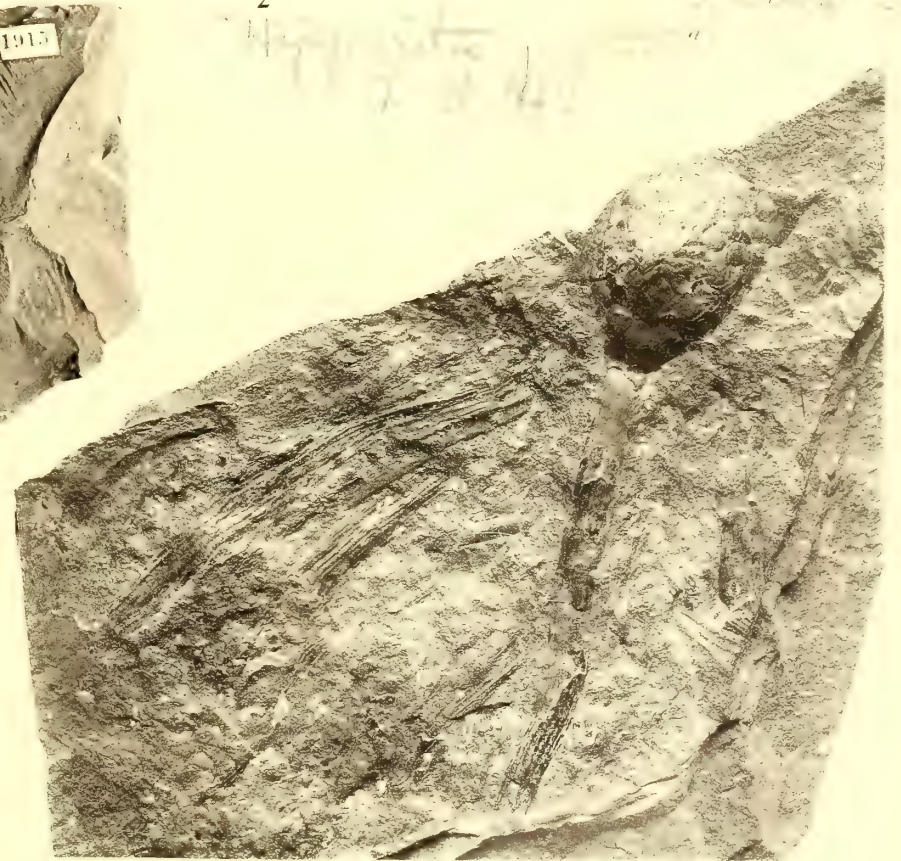
3
Egmontia sp.



1
Hypozitia



4



5

C. sp.

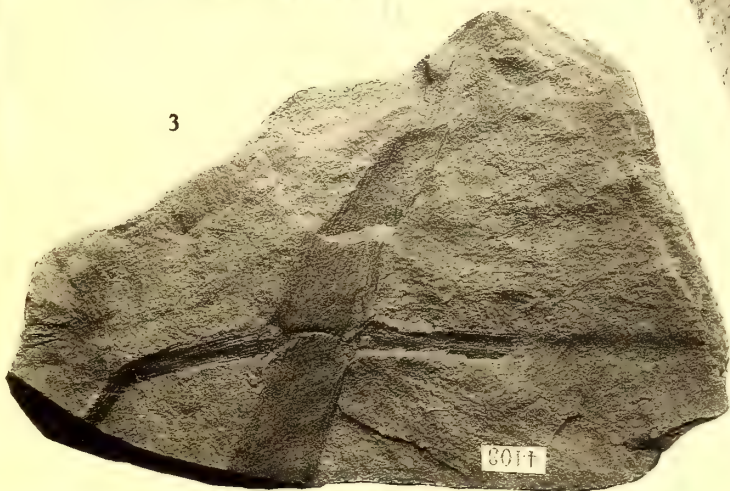
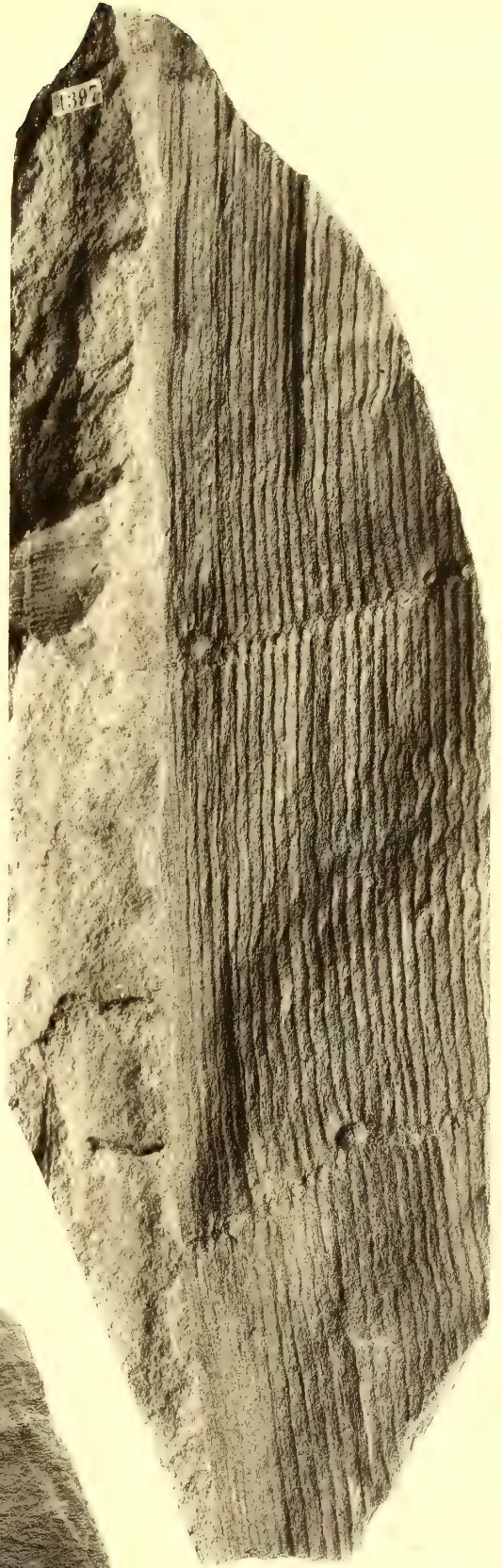
"*Asterophyllites grandis*"



1



2



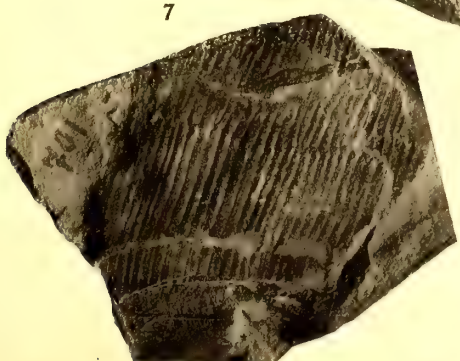
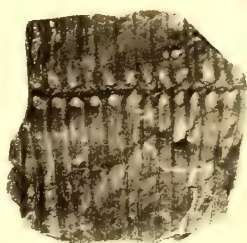
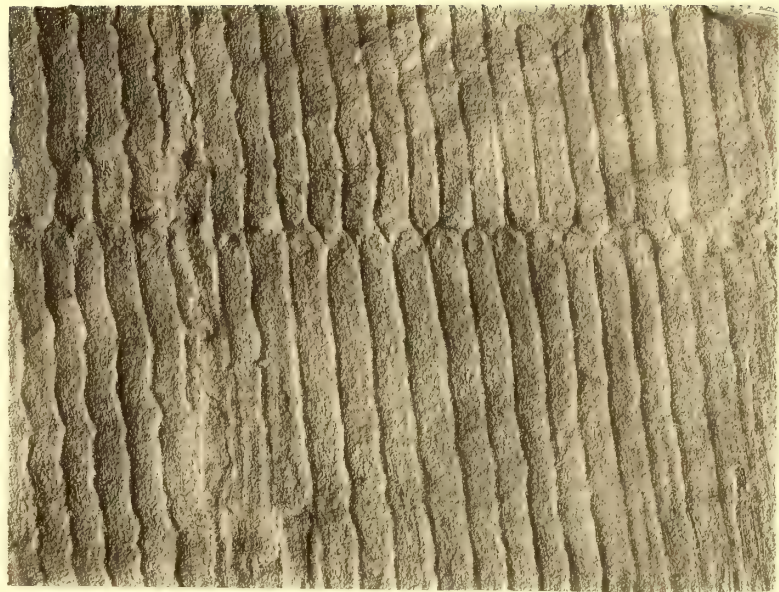
Handwritten notes

Handwritten notes

Handwritten notes

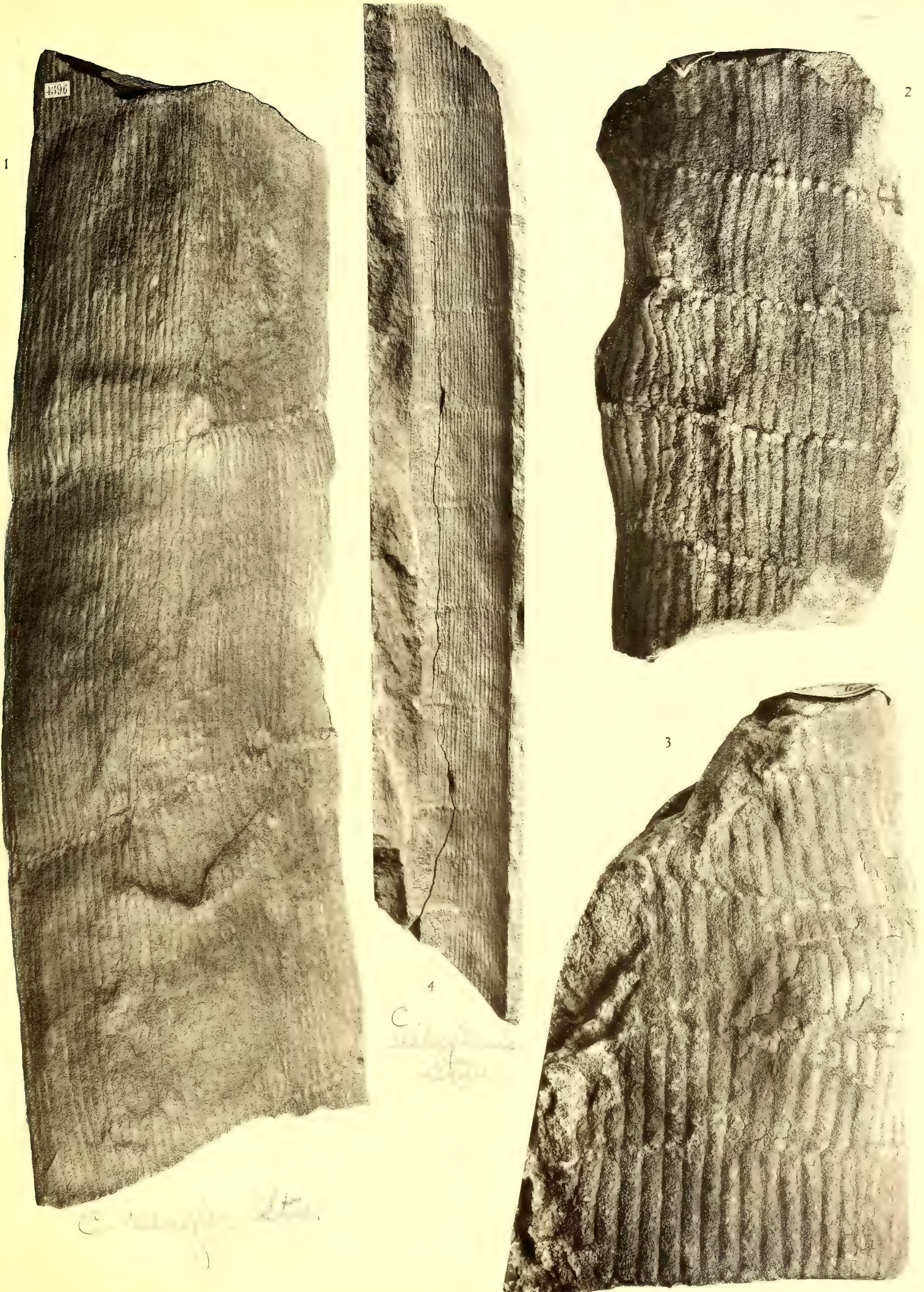
Handwritten notes

C. ramifera Starb. *C. ramifera*



C. cutispina Starb.

C. ramifera Starb.



4396

1

2

3

4

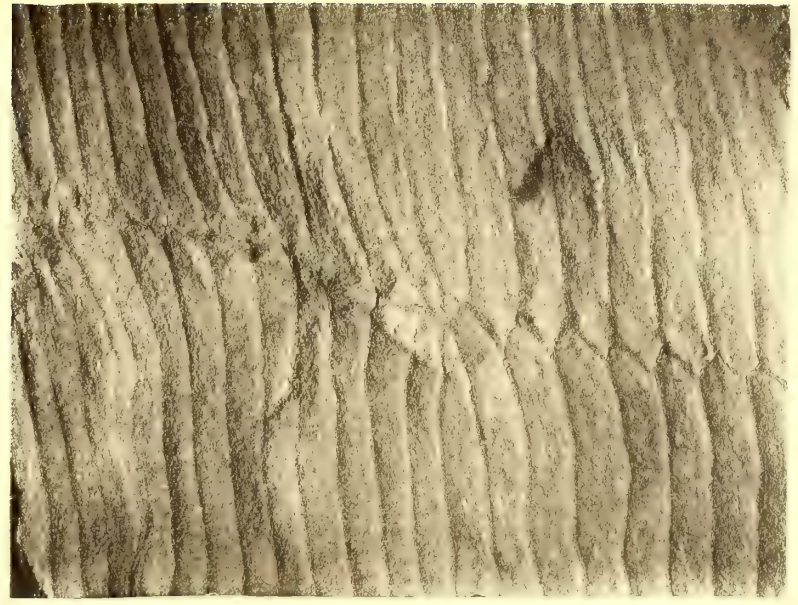
C. ...

C. ...

C. Kauri Star 2-457



4



3



5



1

*C. ...
...
...*

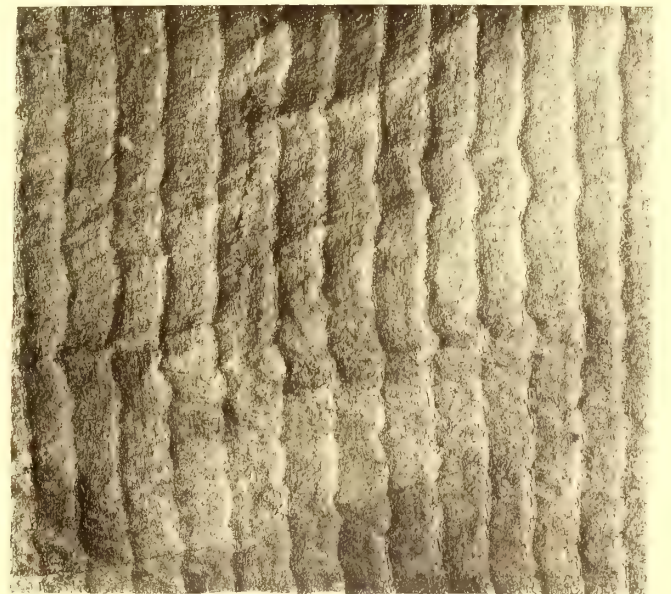


4414

2



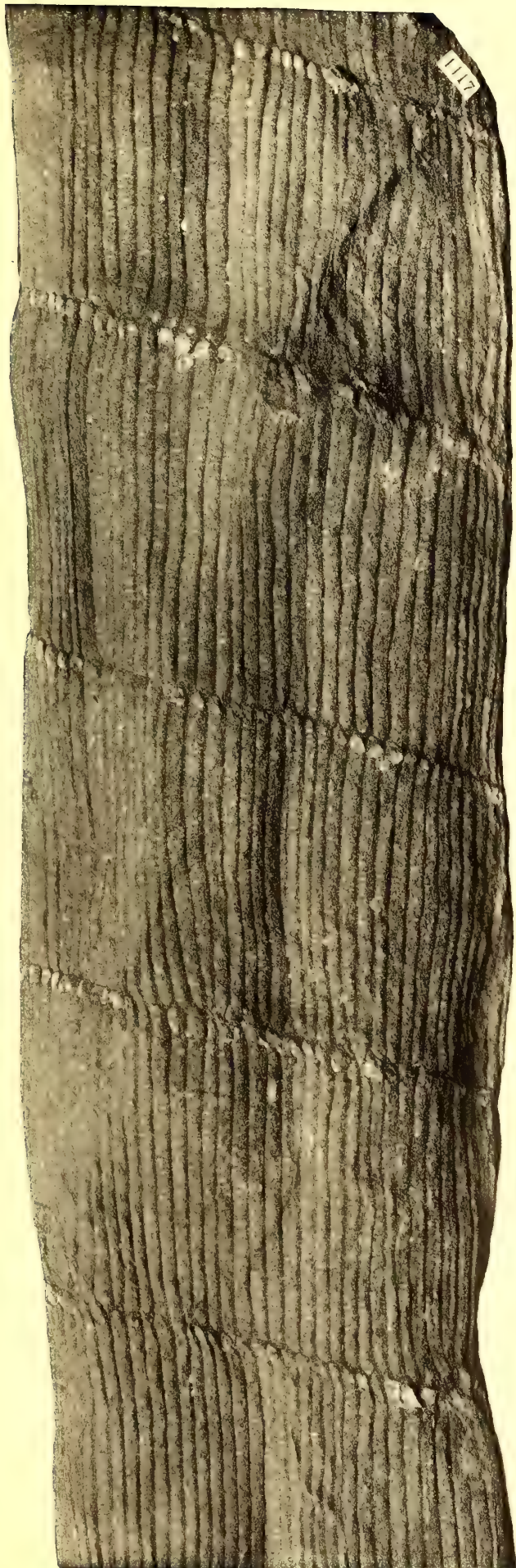
6



7

C. ... Star.

C. ...

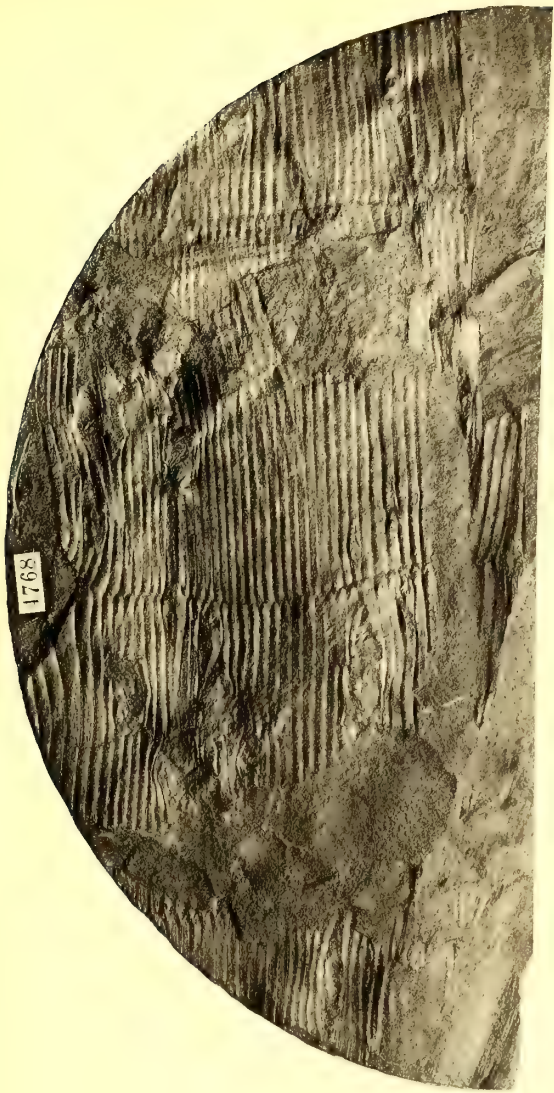


1

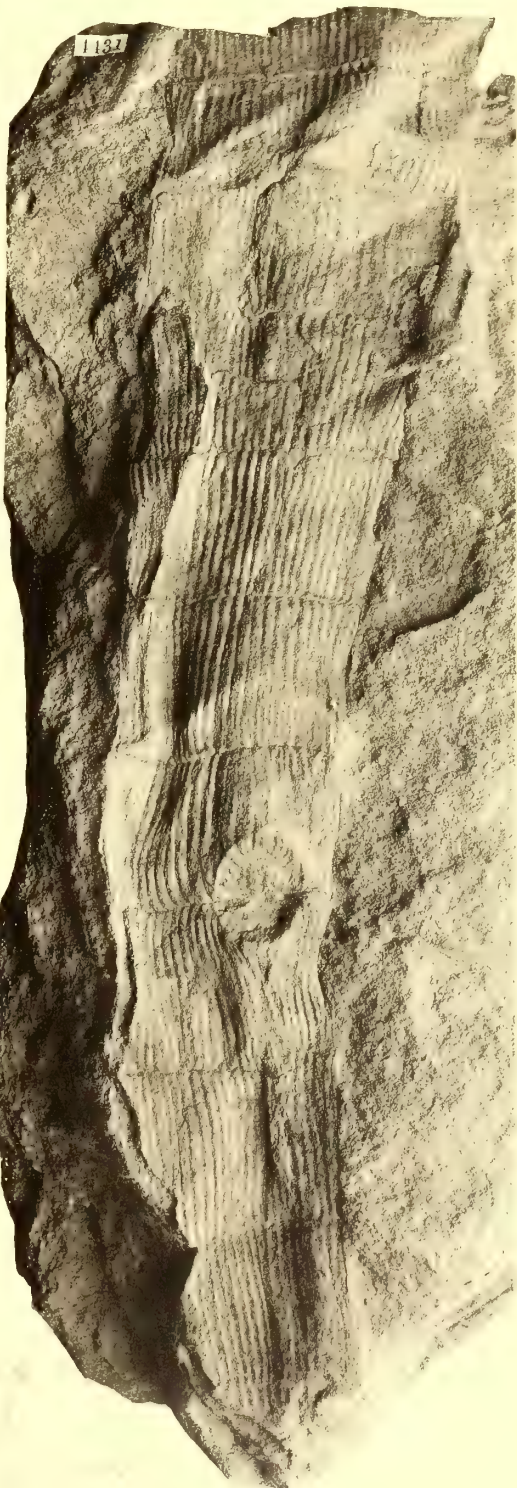
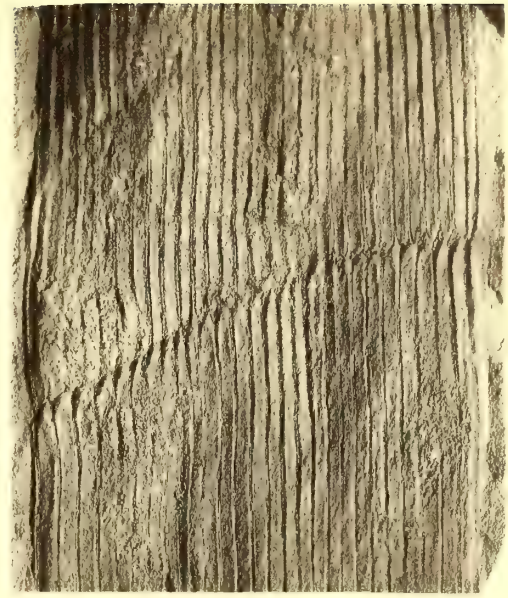


2

C. ... 1-4



3

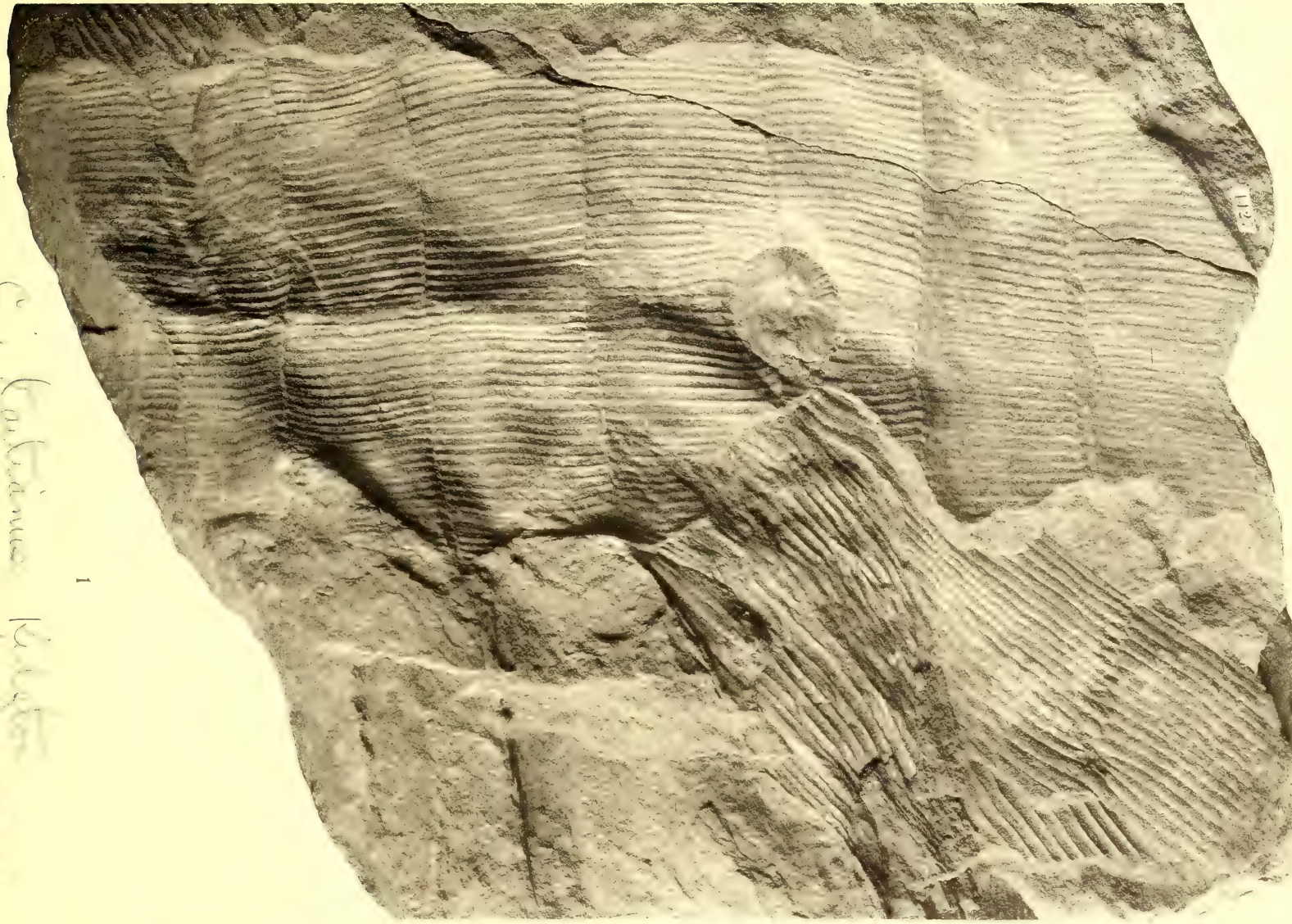


4



5

1



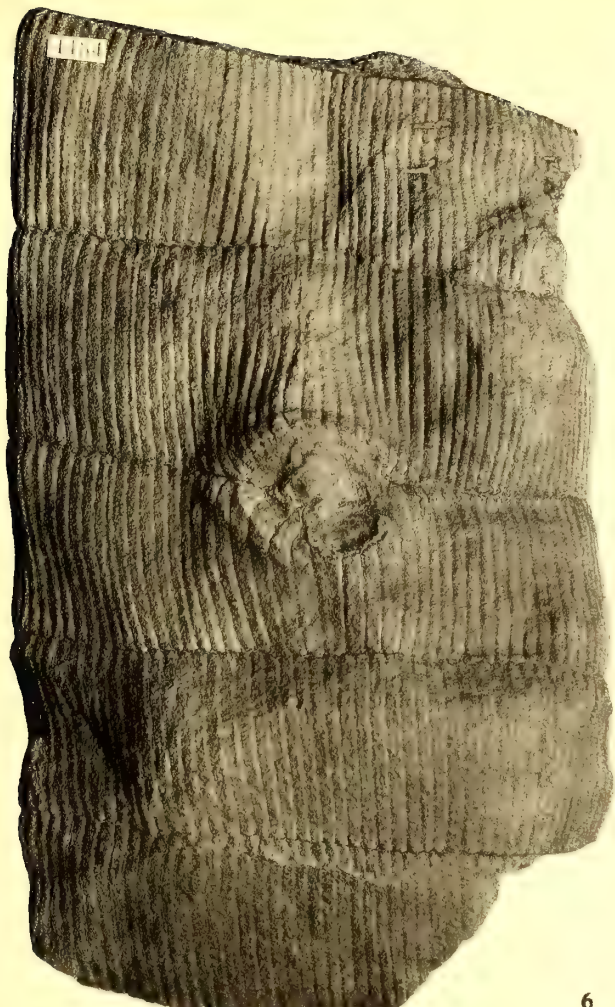
E. californica Blake and Ferguson

1

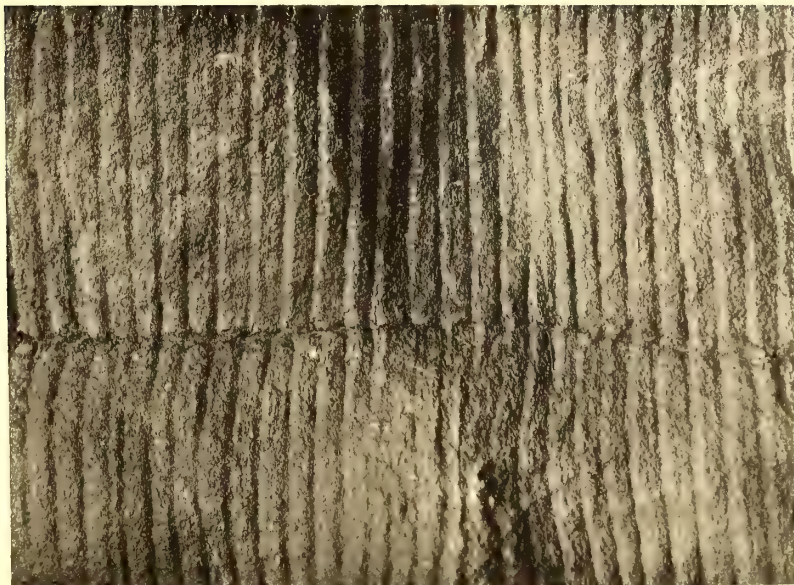
2



E. sp.



1



4



2



3

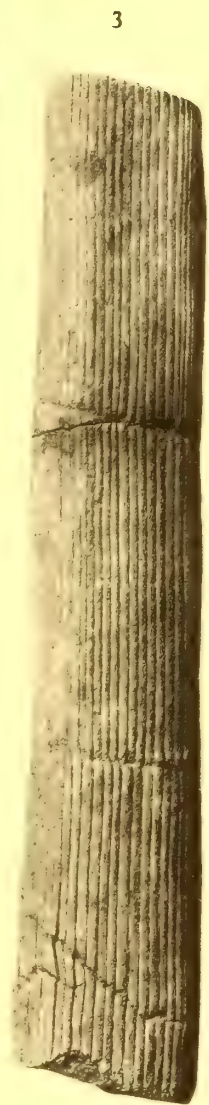


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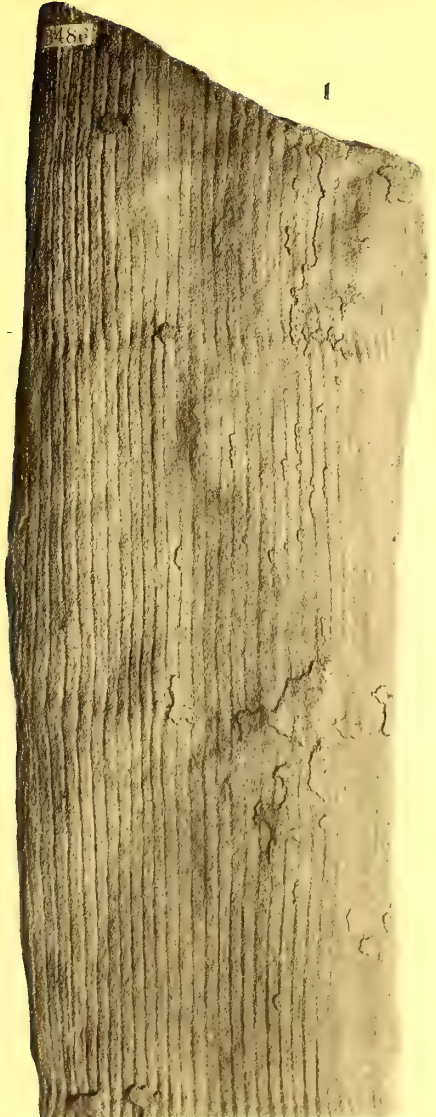
3







Orthis radiatus (L.)



65
K. K. geolog. Reichsanstalt.
Orch. radiatus Ag. sp.
Eulm. d. d. Betr. u. W. d. d.
Taf. IV Fig. 1. Originale

"Anarthron" Linn.

Stigmatorhina velox *Leidy*



1
2
3
4

C. carinata
Stem - var.
rugosus
Kf. et
Jong.



2



3





1



4



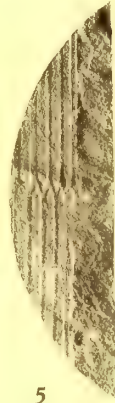
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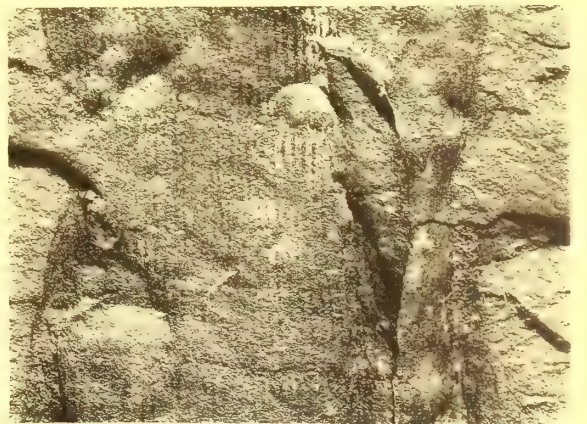
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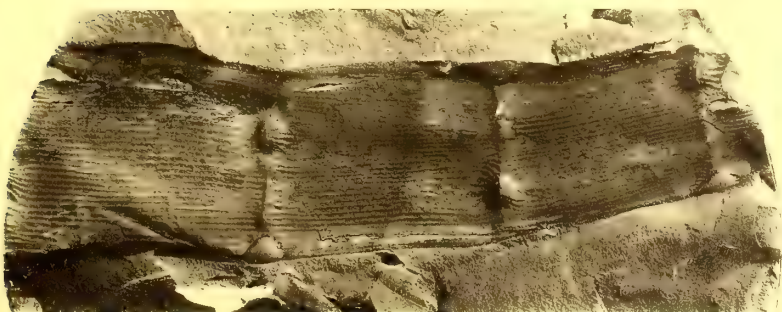
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5



3

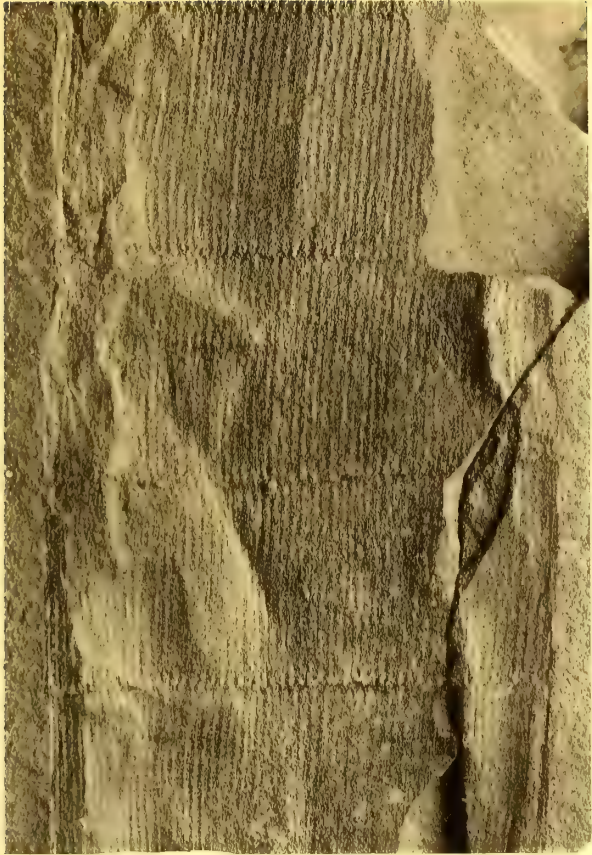


8

C. estivalis L. et H.

C. rotundus L. et H.





2



3



4

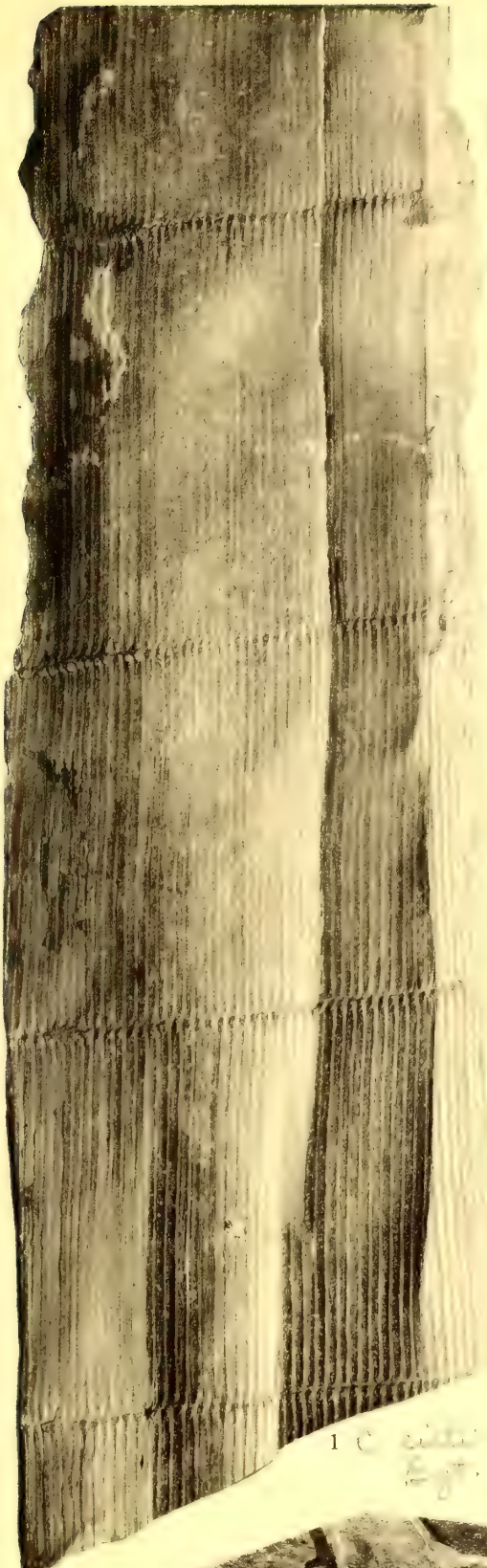


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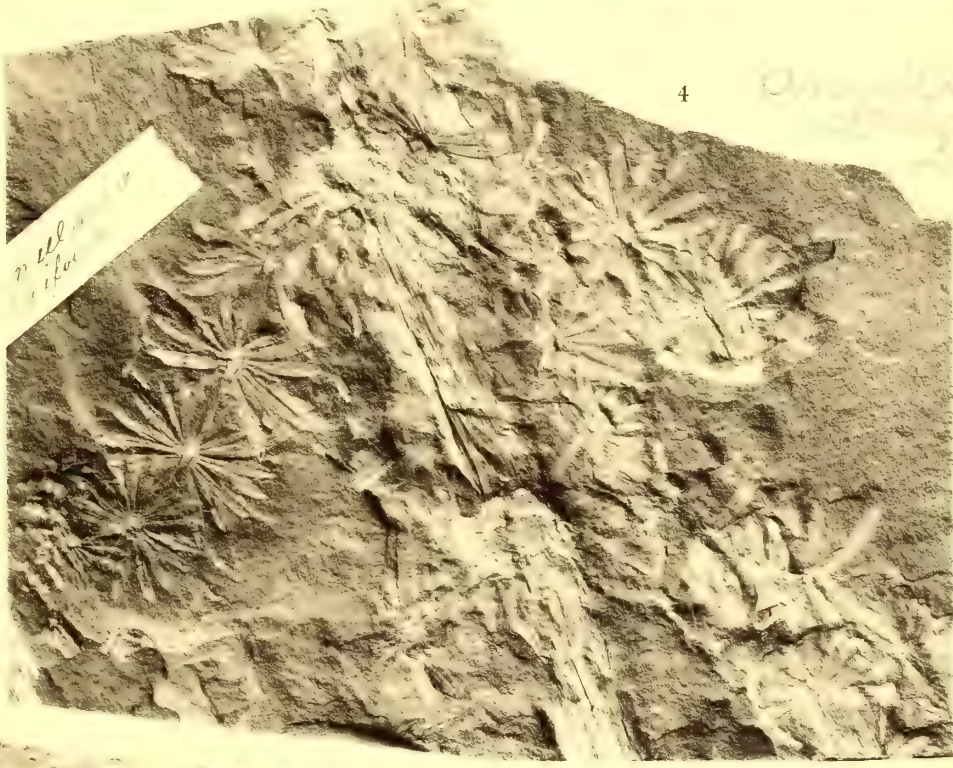


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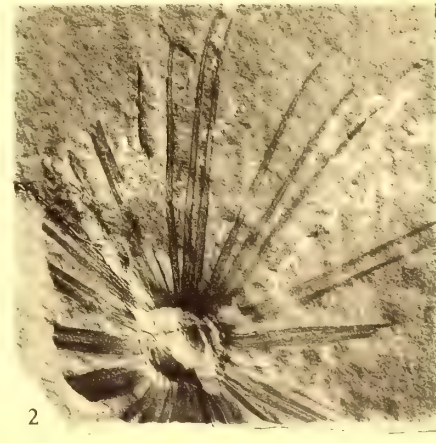
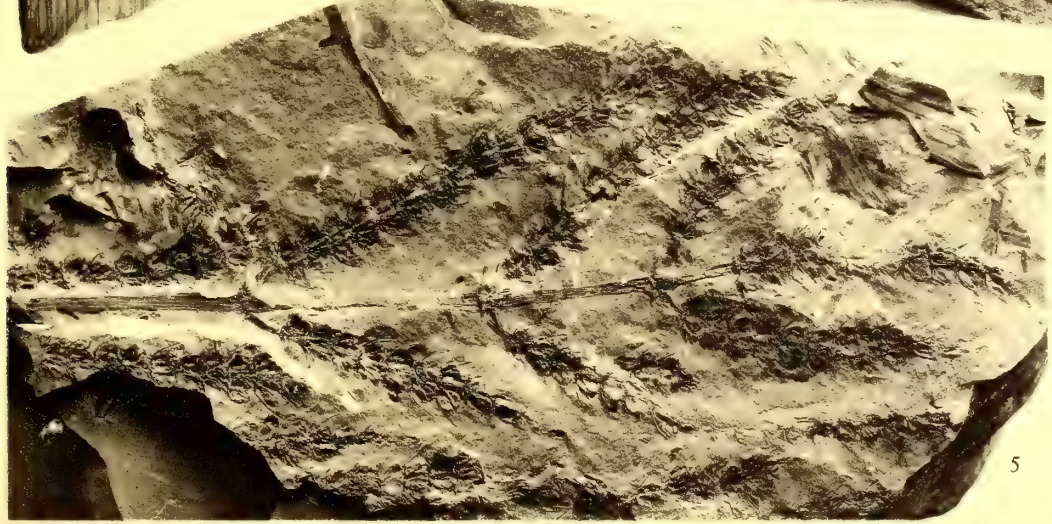
Astrorhynchites



1 *C. cicuti*
Egt.



will
be



Palaeostachya









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