

PALÉONTOLOGIE FRANÇAISE

Éditions de la Société de Paléontologie Française

ПЕЧАТНИЦА С. ПЕТЕРБУРГА



99016

PALÉONTOLOGIE FRANÇAISE
OU
DESCRIPTION
DES FOSSILES DE LA FRANCE

continué
PAR UNE RÉUNION DE PALÉONTOLOGISTES

SOUS
LA DIRECTION D'UN COMITÉ SPÉCIAL

2^e Série. — VÉGÉTAUX

PLANTES JURASSIQUES

PAR
Le marquis DE SAPORTA

TOME IV

TYPES PROANGIOSPERMIQUES
et
SUPPLÉMENT FINAL

ATLAS



G. MASSON, ÉDITEUR

LIBRAIRE DE L'ACADÉMIE DE MÉDECINE
120, Boulevard Saint-Germain, en face de l'École de Médecine

1891

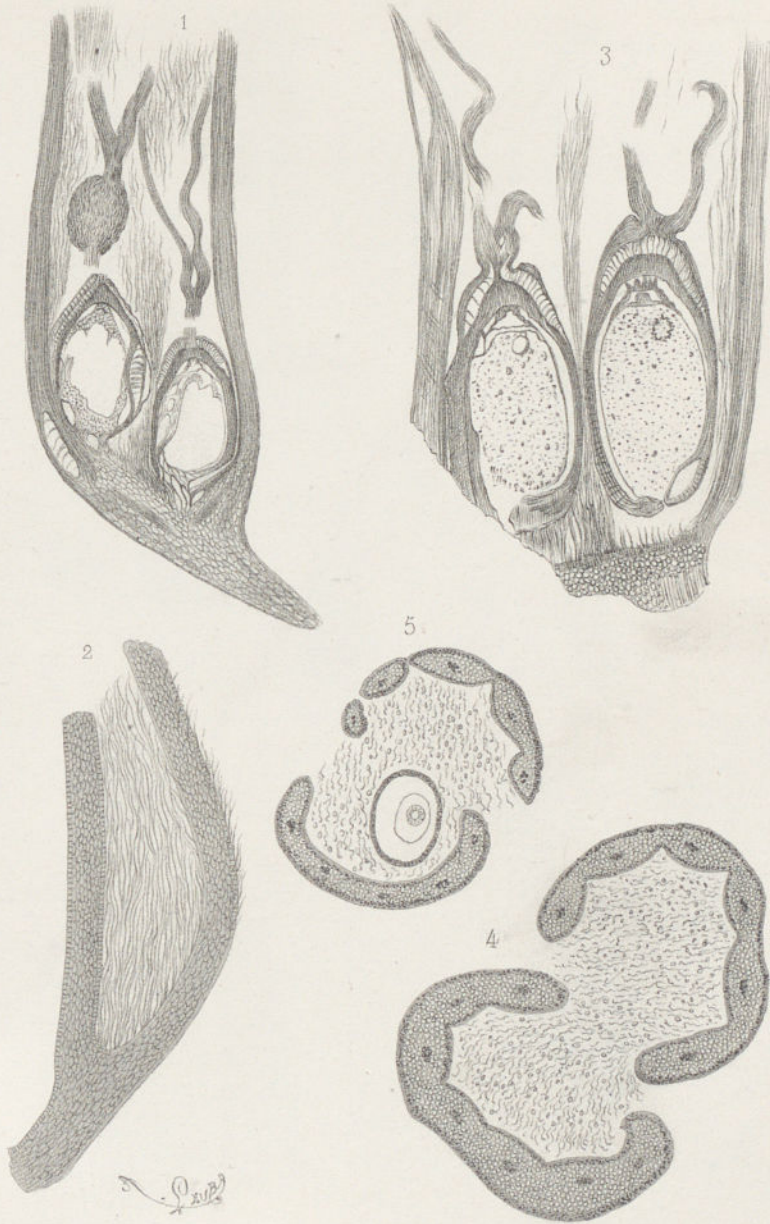


A. Leuba lith.

G. Masson Editeur.

Imp. Lemercier et C^o Paris

1. *Dichoneron Hookeri*, Sap.
2.3. *Aroides palæospathe*, Kut.
4. *Amorphophallus* (espèce vivante).



A. Leuba lith.

G. Masson, Editeur

Imp. Lemerrier et C^{ie} Paris

1.5. *Gnetopsis elliptica*, R et Z.





A. Leuba lith.

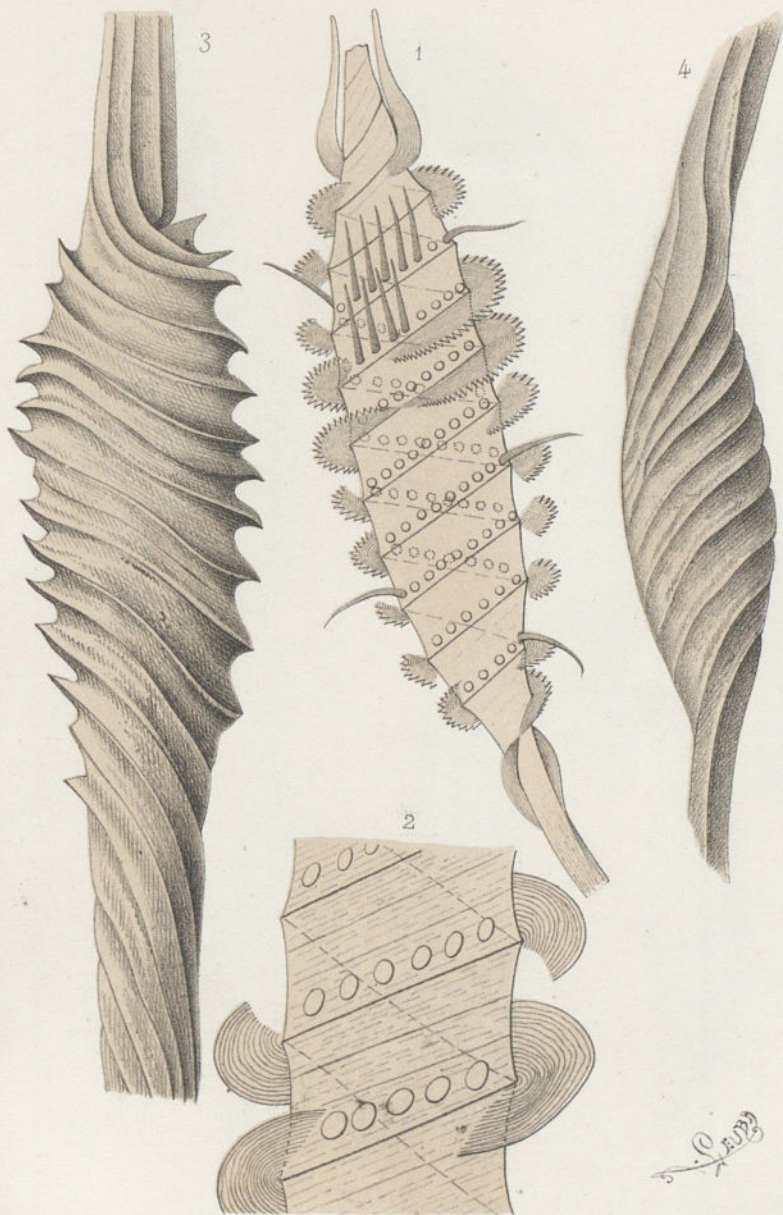
G. Masson Editeur

Imp. Lemercier et C^{ie} Paris

- 1-8. *Ephedrites antiquus*, Hr.
- 9-12. *Ephedra alata*, (espèce vivante).
- 13. *Ephedrites armillensis*, Sap.

A. Leuba





A. Leuba lith.

G. Masson, Editeur

Imp. Lemercier et C^o Paris.

1. *Fayolia dentata*, Ren. et Zeill.
 2. *F. " grandis*, Ren. et Zeill.
 3. *Spirangium appendiculatum*, Lqx.
 4. *S. " carbonarium*, Schimp.

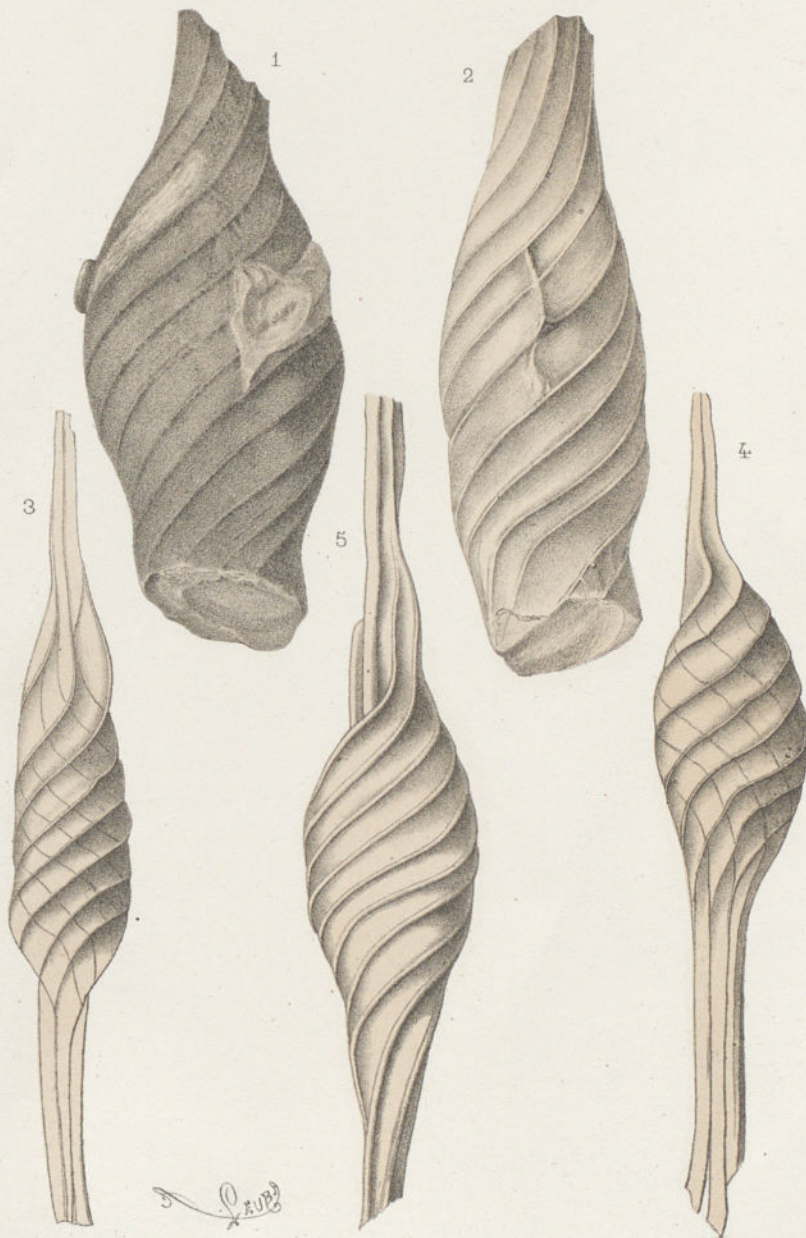


A Leuba lith.

G. Masson éditeur

Imp. Lomercier & C^{ie} Paris

- 1-2 *Spirangium carbonarium* Schimp.
 3 *S. _____ appendiculatum* Lqx.
 4 *S. _____ regulare* Schimp.
 5 *S. _____ quenstedti* Schimp.



A. Leuba lith.

G. Masson Editeur

Imp. Lemercoier & C^{ie} Paris

1.2. *Spirangium ventricosum*. Sap.
3.5. *S.*_____ *Münsteri*. Schimp.

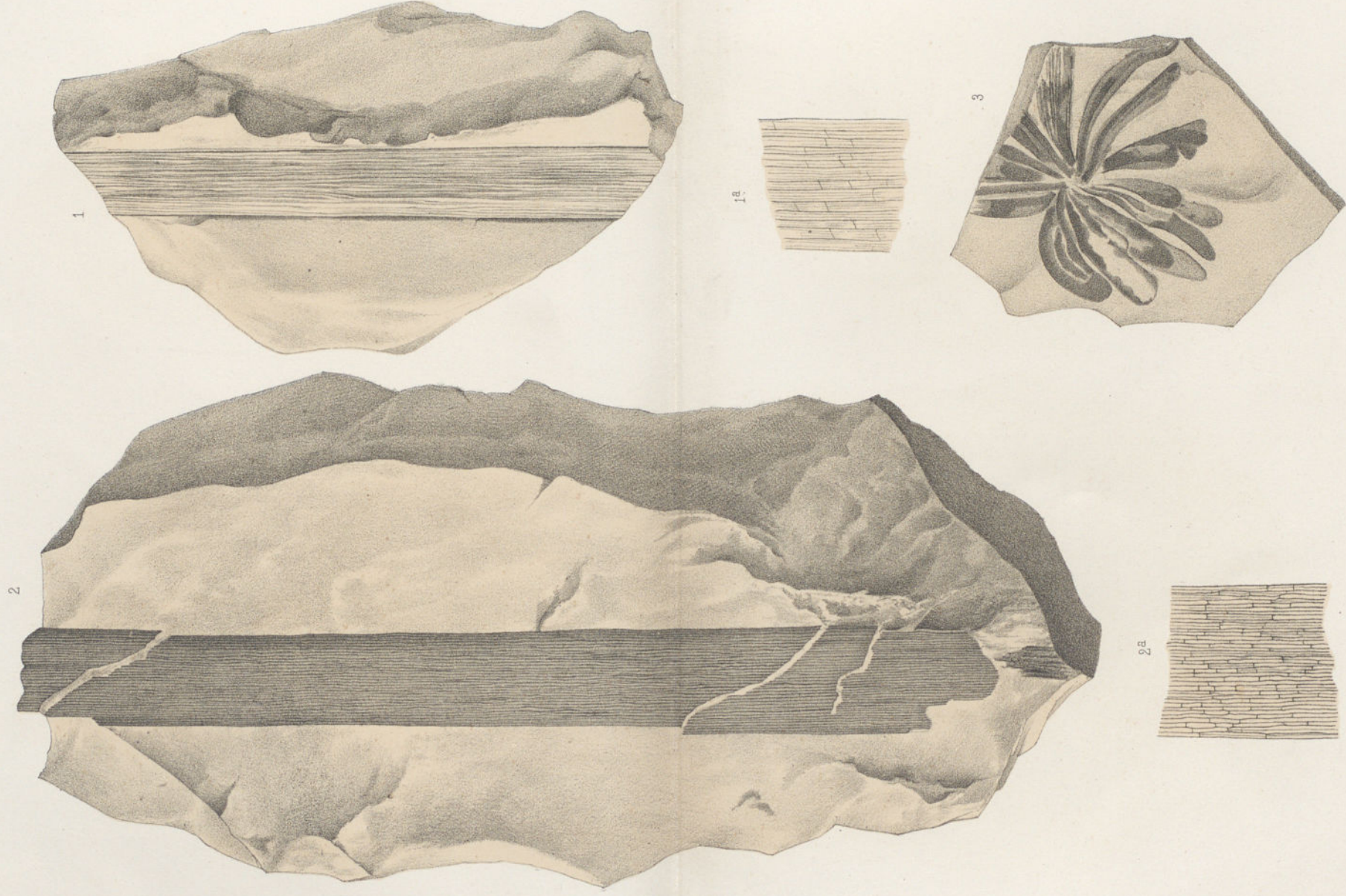


A. Leuba lith.

G. Masson Editeur

Imp. Lemercoier & C^{ie} Paris

1.2 Spirangium Jugleri (Et.) Schimp.



Leuba lith.

G. Masson Editeur

Imp. Lemerle et Cie Paris

1. *Yuccites angustior*, Sap.
2. *Y. viltæformis*, Sap.
3. *Williamsonia Zeilleri*, Sap.



Leuba lith.

G. Masson Editeur.

Imp. Lemercier & C^{ie} Paris

1.3 *Yuccites hettangensis* Sap.

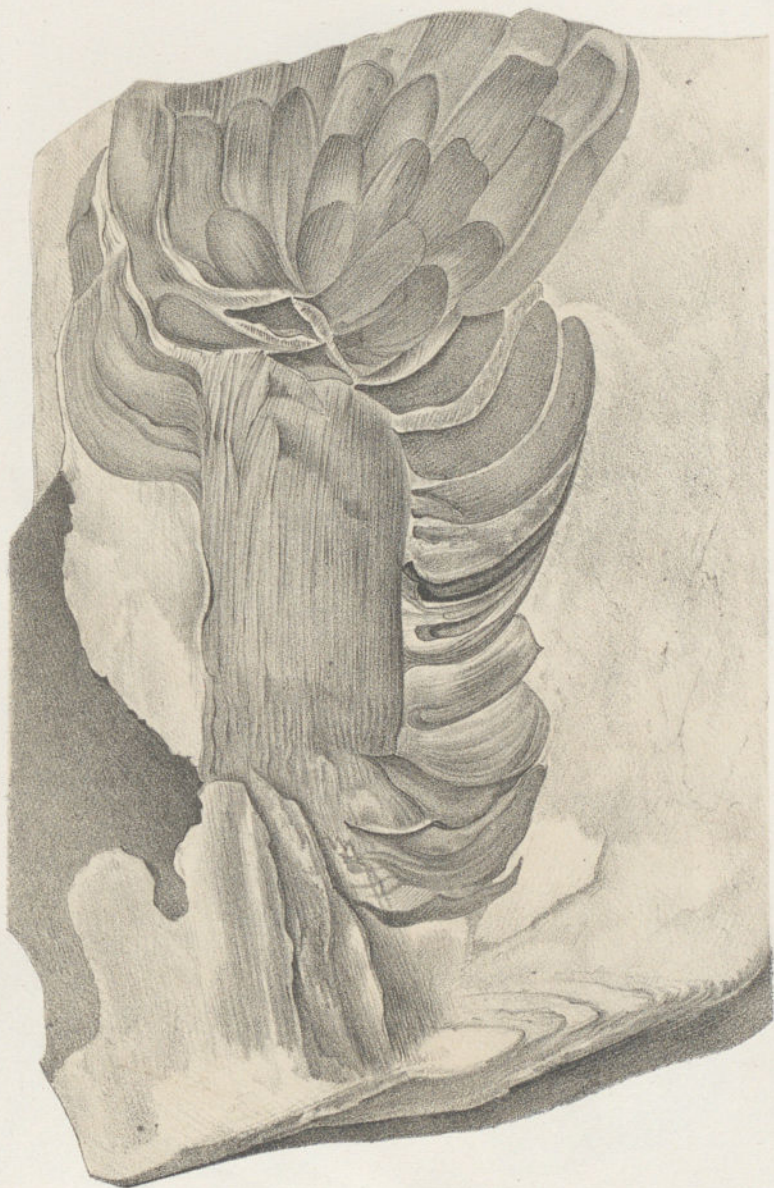


Leuba lith.

G. Masson Editeur

Imp. Lemercier & C^o Paris

- 1. *Yuccites burgundianus*, Sap.
- 2. *Caulomorpha Locardi*, Sap.
- 3. *C. _____ bambusina*, Sap.

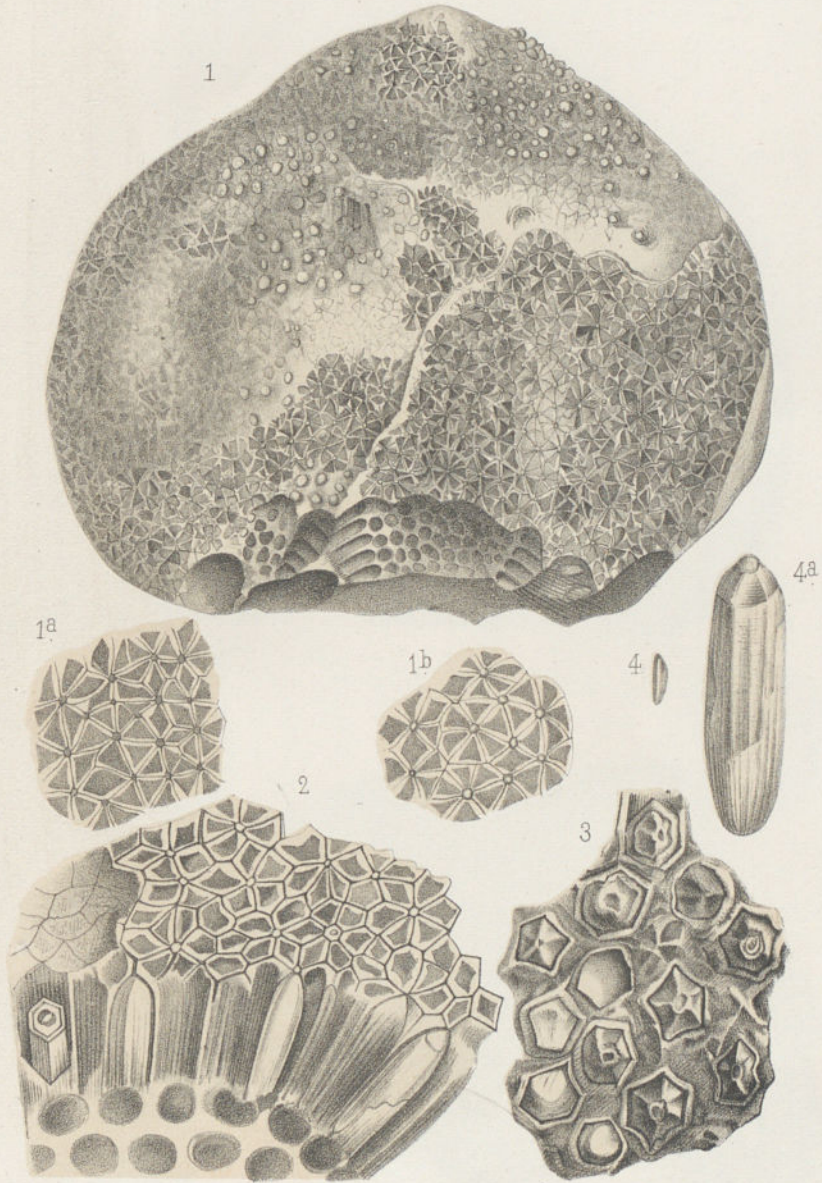


Leuba lith

G. Masson Editeur

Imp. Lemercier & C^{ie} Paris

Williamsonia Pougeti Sap.

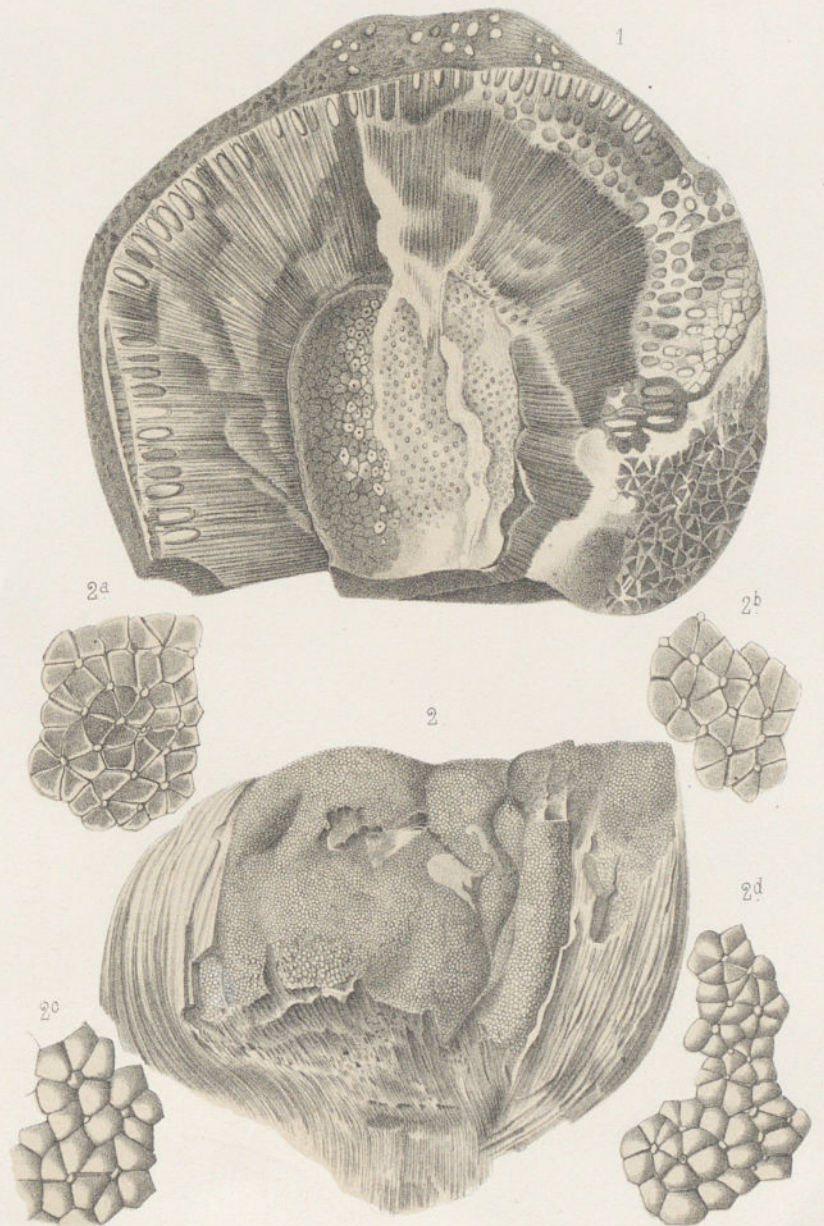


Leuba lith

G. Masson Éditeur

Imp. Lemercier & C^{ie} Paris

1. 4. *Williamsonia Bucklandi* Sap.

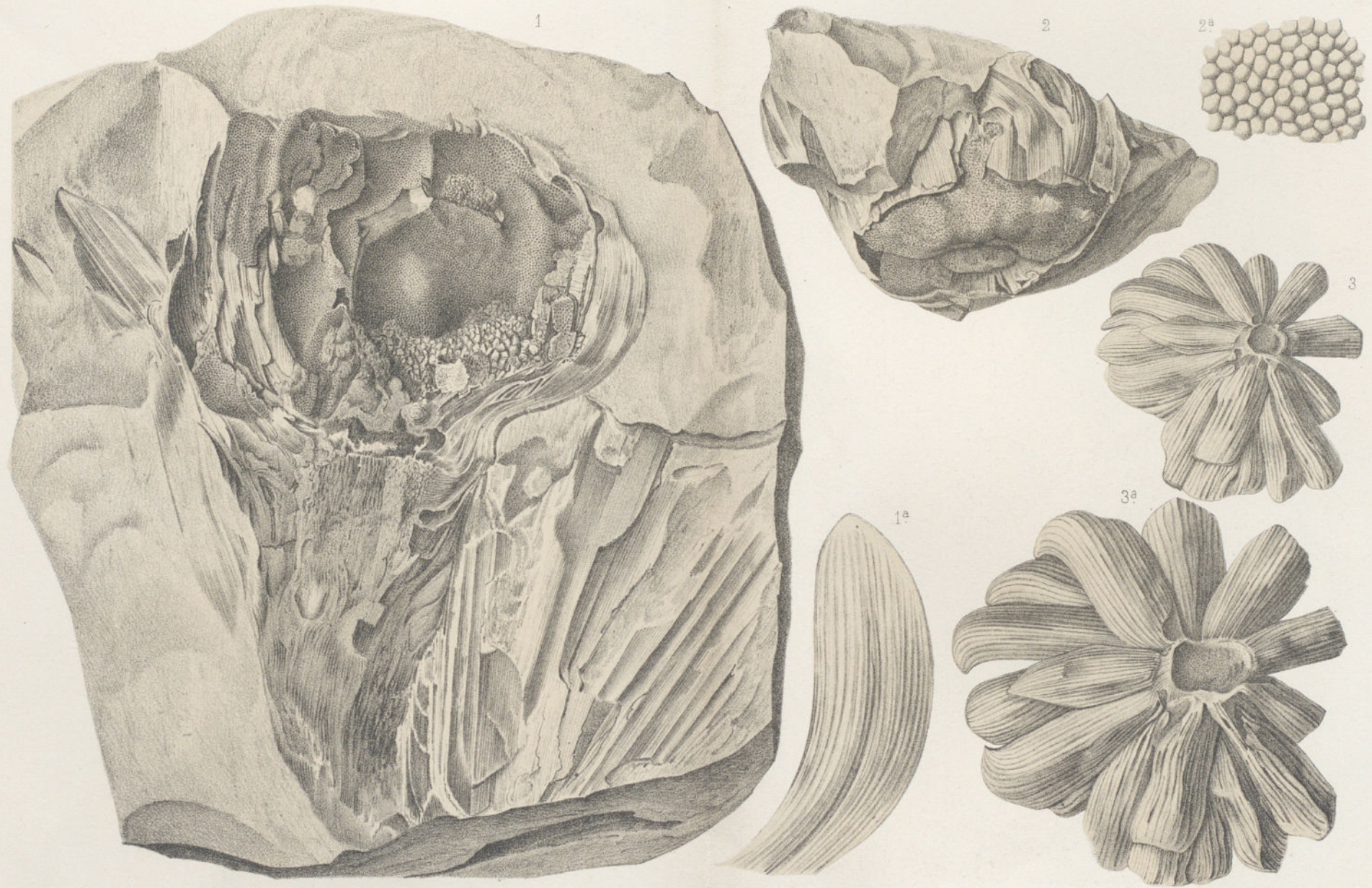


Leuba lith.

G. Masson Editeur

Imp. Lemercier & C^{ie} Paris.

1. *Williamsonia Bucklandi*, Sap.
2. *W. _____* *gigas*, Carruth.



Leuba lith.

G. Masson Editeur

1.3. *Williamsonia gigas*, Carruth.

Imp. Lemercier & C^{ie} Paris.

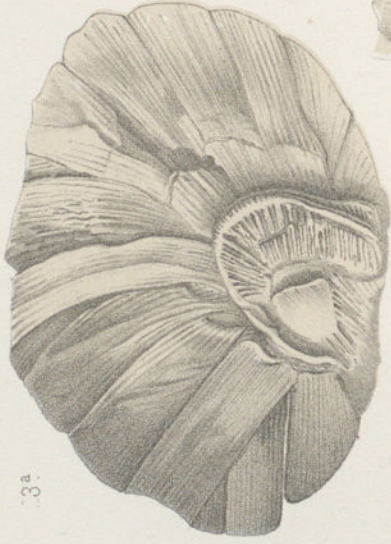


Leuba lith.

G. Masson Editeur

Imp. Lemerrier & C^{ie} Paris.

1. *Williamsonia gigas*, Carruth.



3^a



3



1

2

Leuba lith.

G. Masson Editeur.

1.3. *Williamsonia gigas*, Carruth.

Imp. Lemercier & C^{ie} Paris.



Leuba lith.

G. Masson Editeur
14. *Williamsonia* gigas, Carruth.

Imp. Lemercier & C^{ie} Paris

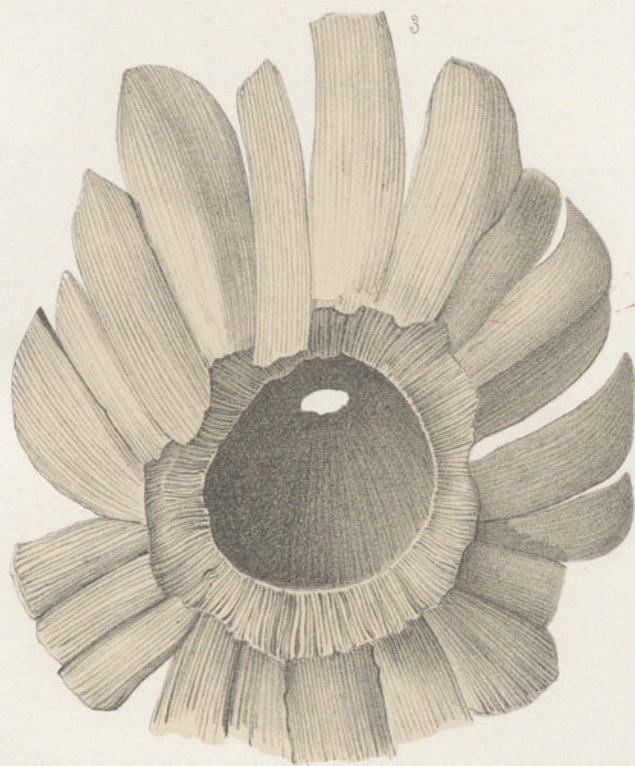
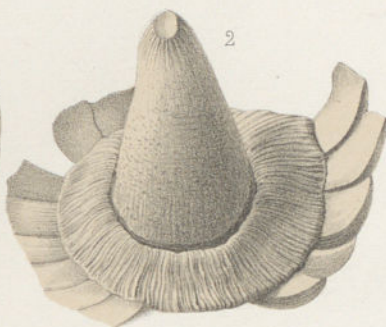
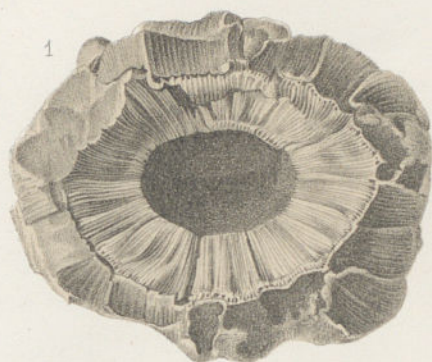


A. Leuba lith.

G. Masson Editeur

Imp. Lemercier & Co Paris

1.4. Williamsonia gigas, Carruth.



A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & C^o Paris.

13. *Williamsonia gigas*, Carruth.



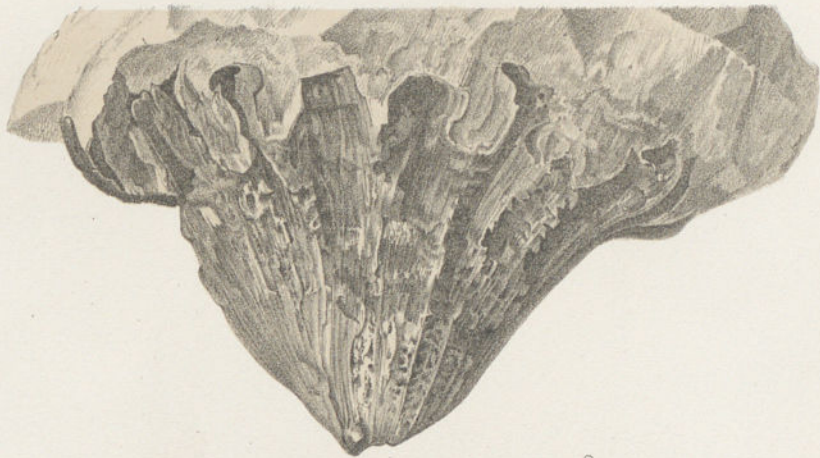
A. Leuba lith.

G. Masson, Editeur.

Imp. J. et A. Lemercier, Paris.

1-6. *Villiamsonia gigas*, Carruth.

1



2

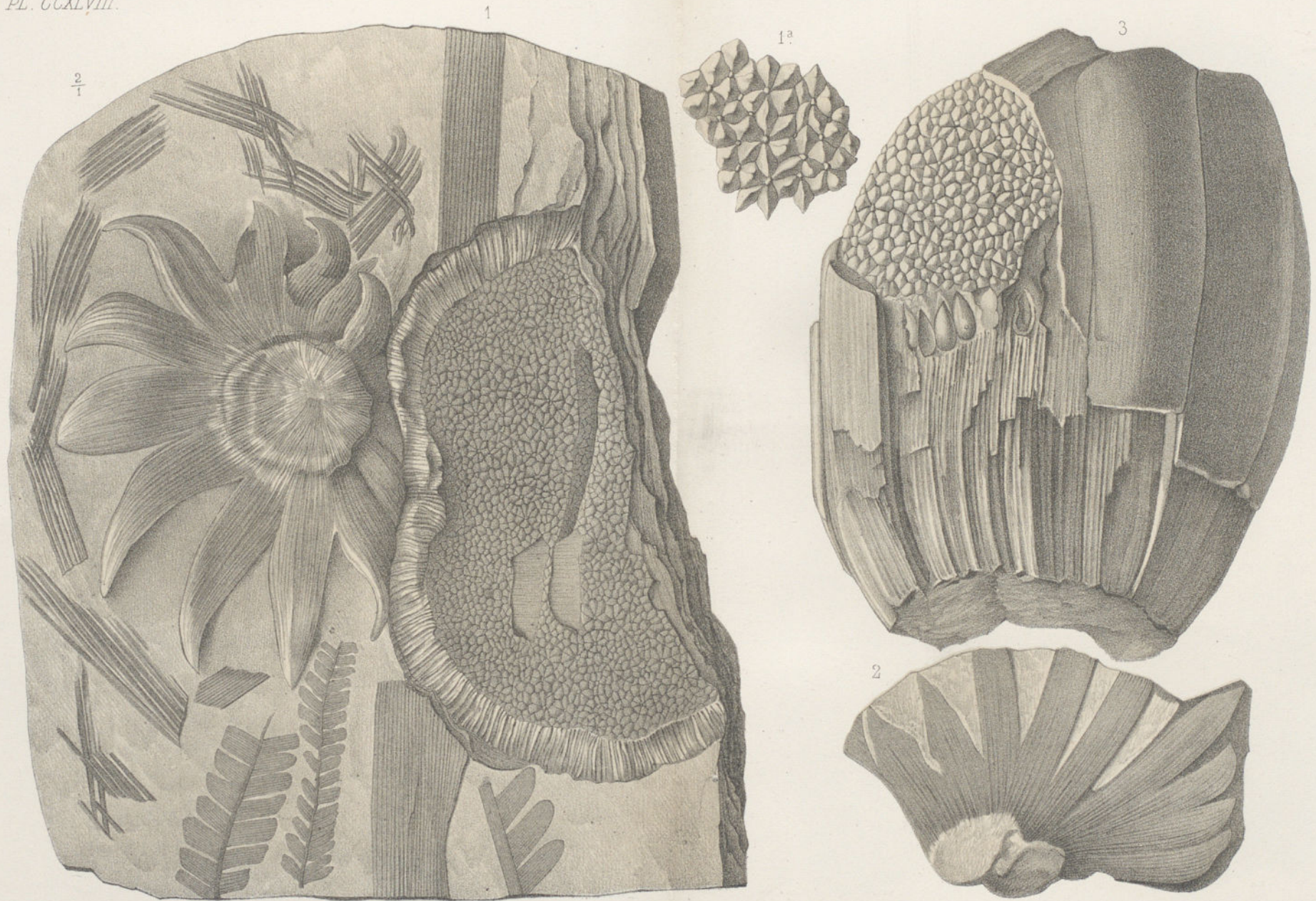


A Leuba lith.

G. Masson, Editeur

Imp. Lemercier & Co. Paris

12. *Williamsonia gigas*, Carruth.

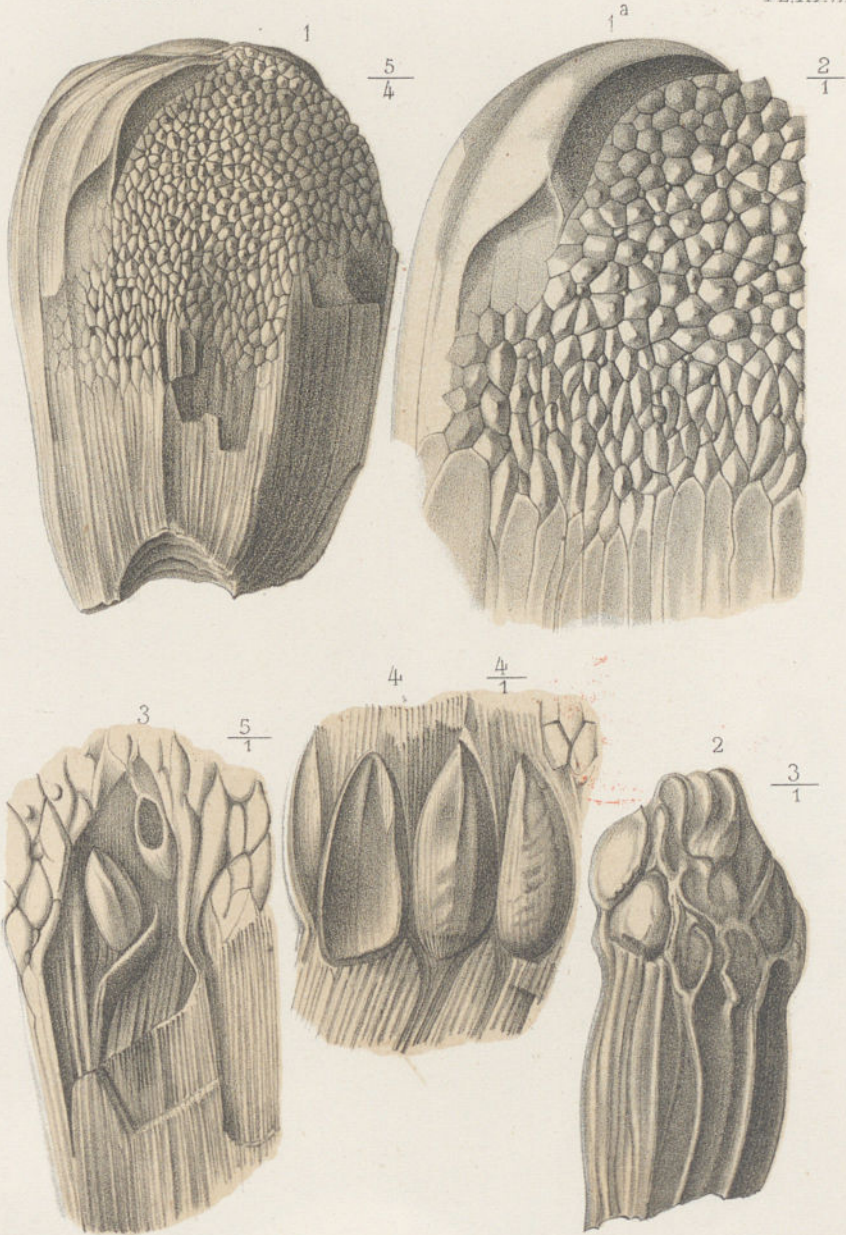


A. Leuba lith.

G. Masson, Editeur.

Imp. J. et A. Lemercier, Paris.

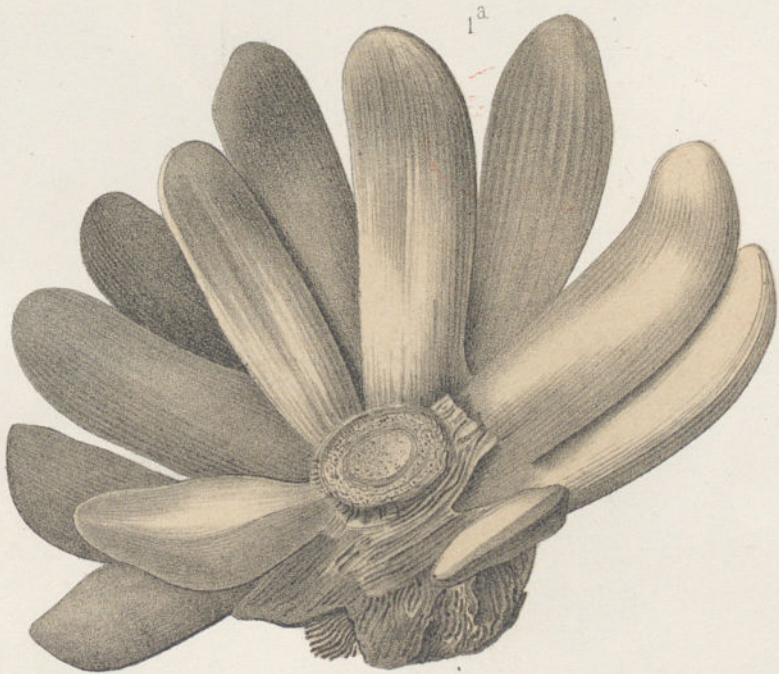
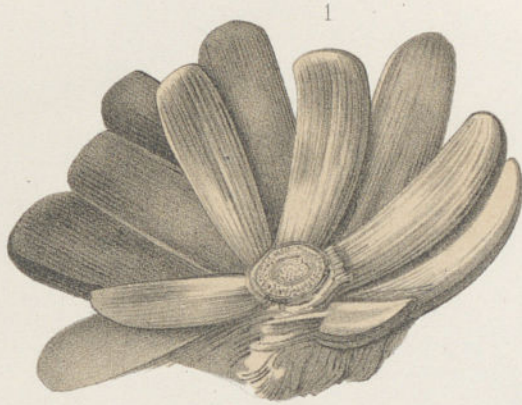
1-2. *Williamsonia Leckembyi*, Nath.
 3. *W. Morierei*, Sap.



A. Leuba lith.

G. Masson Éditeur

Imp. Lemercier et C^{ie} Paris



A. Leuba lith.

G. Masson Editeur.

Imp. Lemerancier et C^{ie} Paris.

Williamsonia pictaviensis, Sap.

3



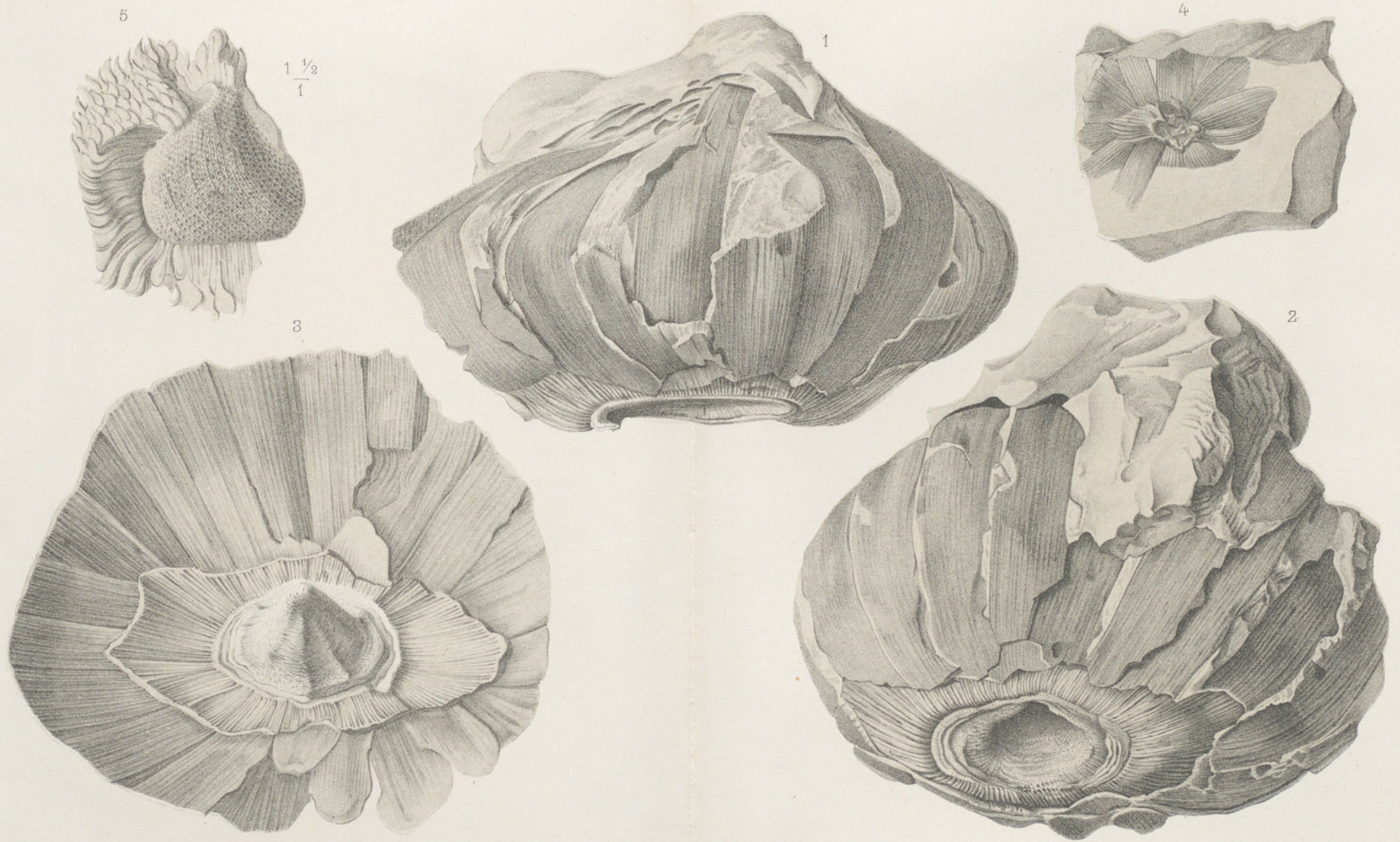
A. Leuba lith.

G. Masson Editeur

Imp. Lemerrier et C^{ie} Paris.

1. *Williamsonia gigas*, Carruth.

3. *W. _____ italica*, Sap.



A. Leuba lith.

G. Masson, Editeur.

Imp. A. Lemercier, Paris.

- 1-3. *Williamsonia Gagnieri* (Zeiller) Sap.
 4. _____ *Italica*, Sap.
 5. _____ ? *Sp. nov.*, Lesqx (Dakota Group Amérique.)



A. Leuba lith.

G. Masson Editeur

Imp. Lemercier et C^o. Paris.

Yuccites hettangensis, Sap.



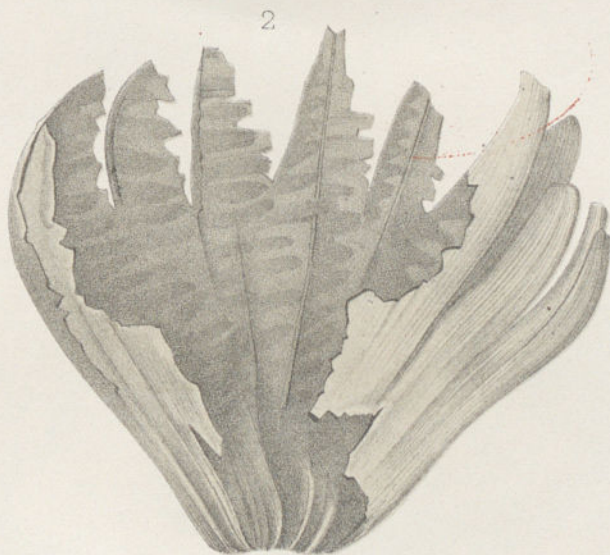
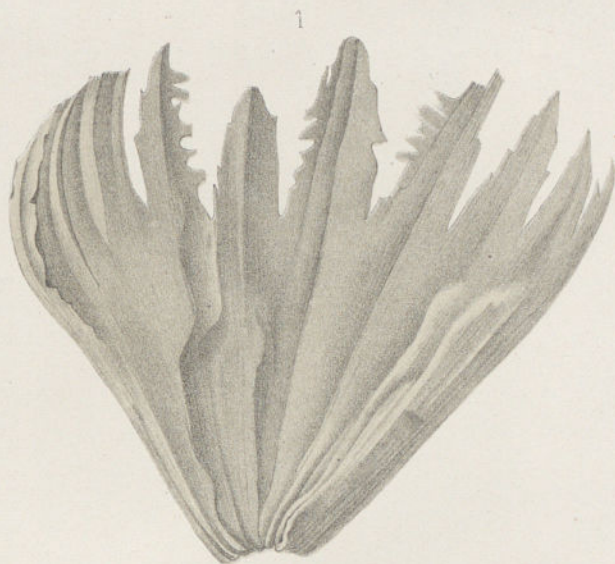
A. Leuba lith.

G. Masson, Editeur.

Imp. A. Lemercier, Paris

BALANOPHOREES ACTUELLES.

1. *Balanophora polyandra*, Griff.
2. _____ ? *fungosa*, Forst.
3. *Langsdorfia*, Sp. (Brésil).

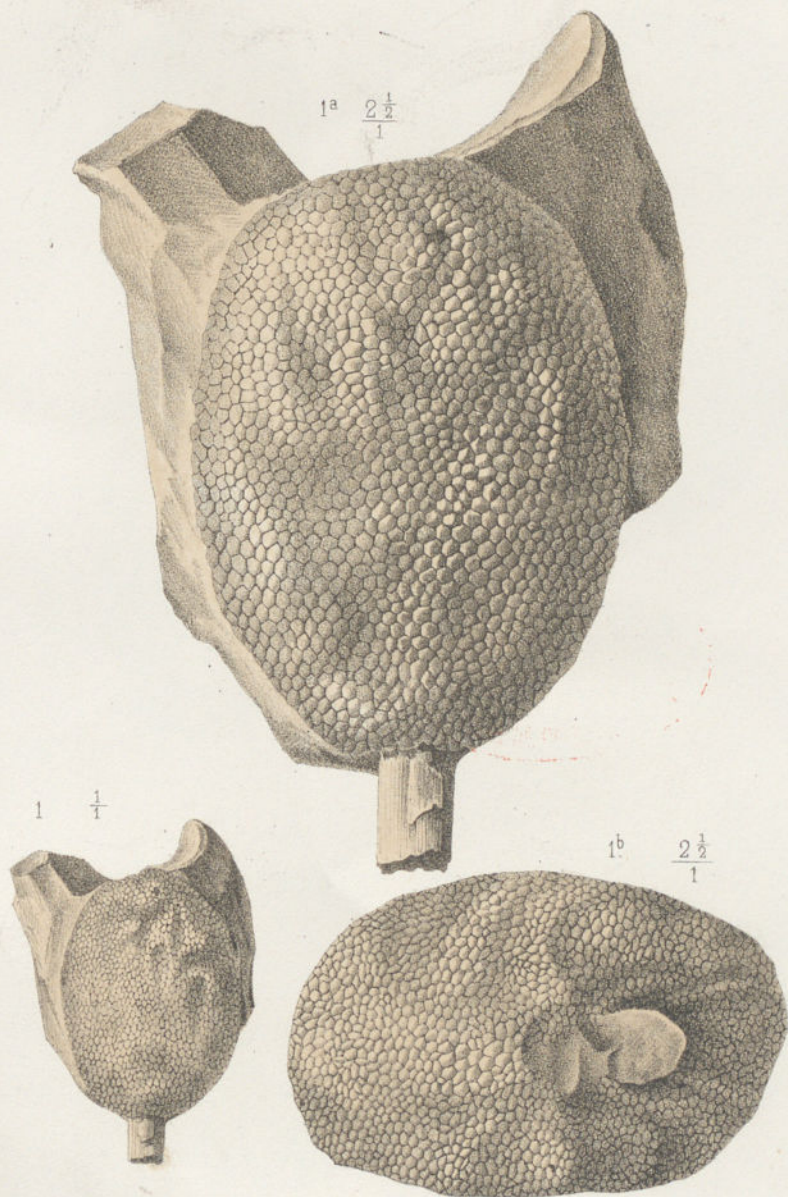


A. Leuba lith.

G. Masson, Éditeur.

Imp. A. Lemercier, Paris.

1—2. Weltrichia mirabilis, Fr. Br.

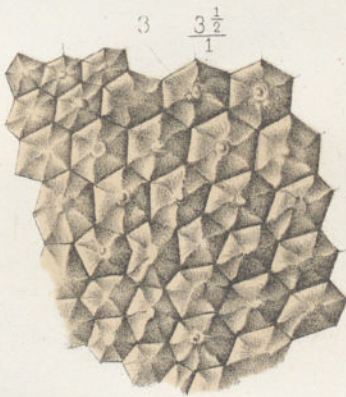
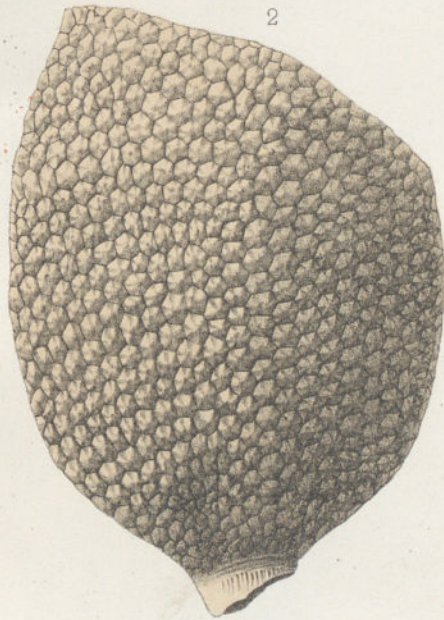
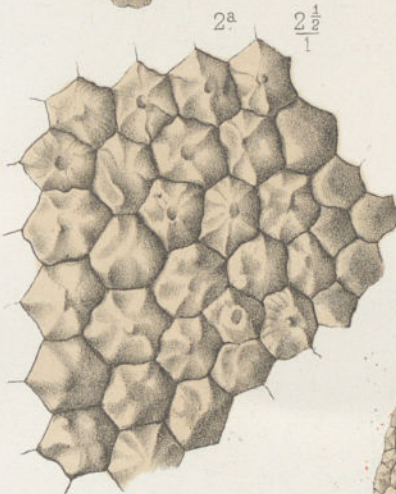


A Leuba lith

G Masson, Editeur

Imp. Lemercier & C^{ie}, Paris.

Goniolina géométrica, d'Orb.

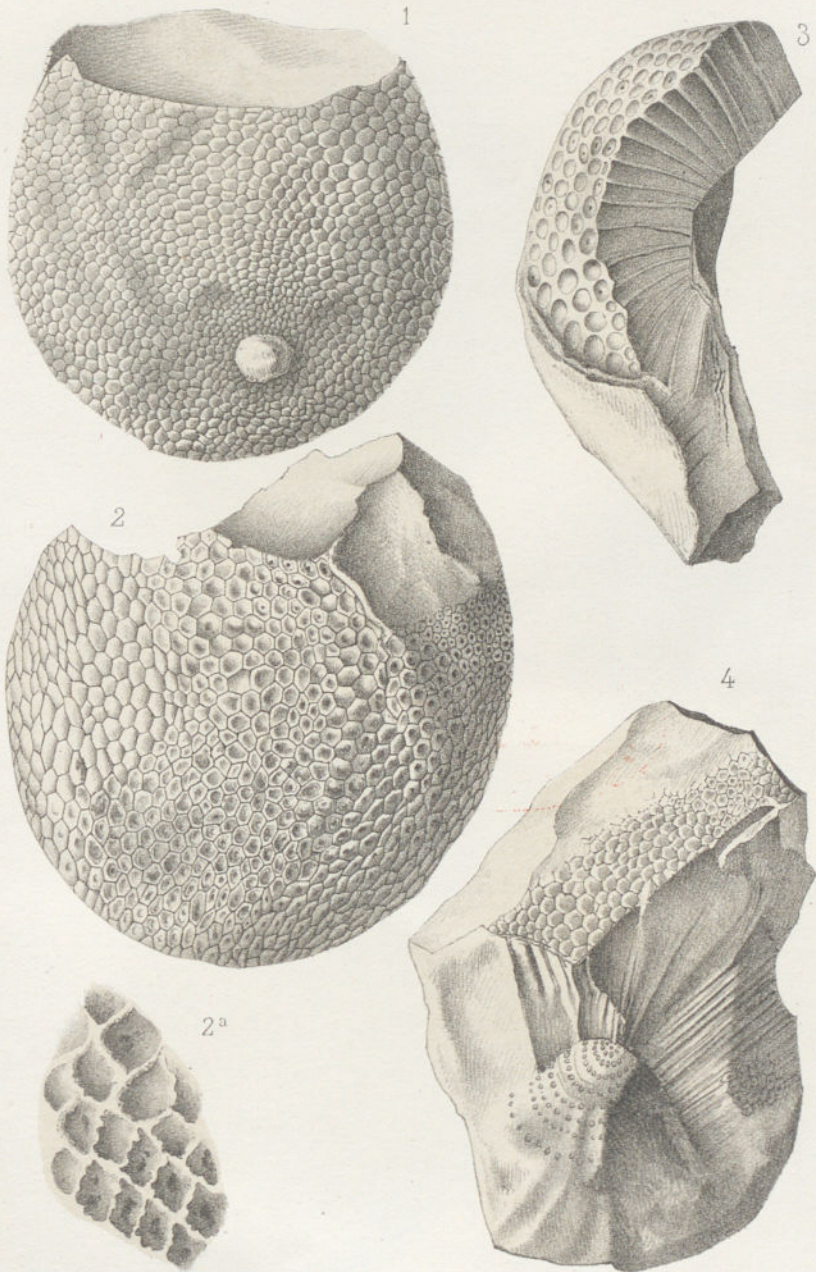


A Leuba lith.

G. Masson, Editeur

Imp. Lemercier & C^o, Paris.

1-3. *Coniolina géométrica*, d'Orb.

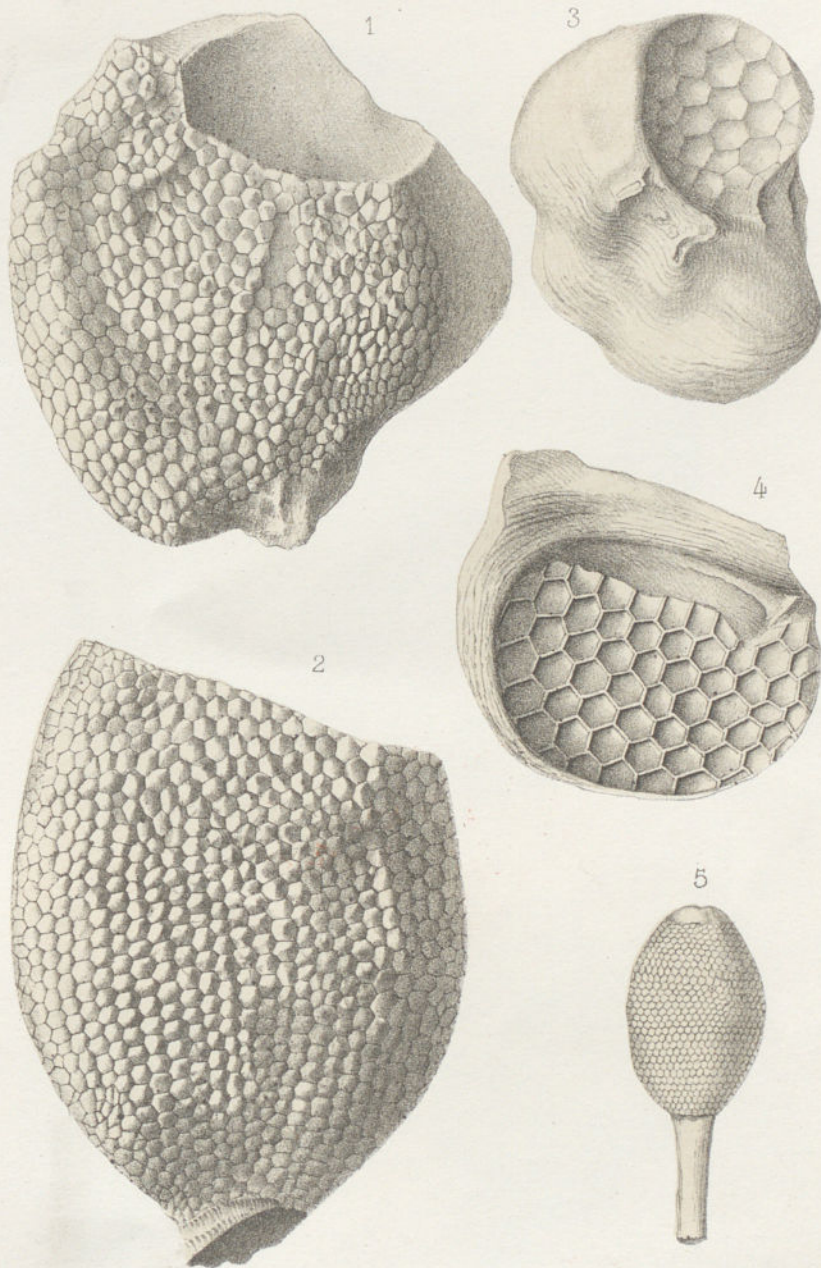


A. Leuba lith.

G. Masson Editeur

Imp. Lemercier et C^{ie} Paris

1-4. *Goniolina géométrica*, d'Orb.

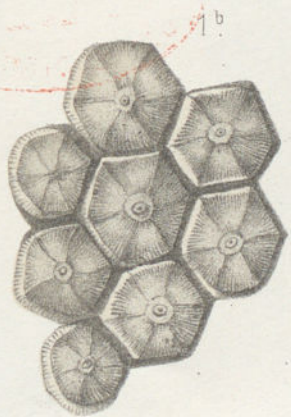
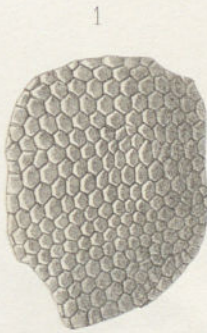
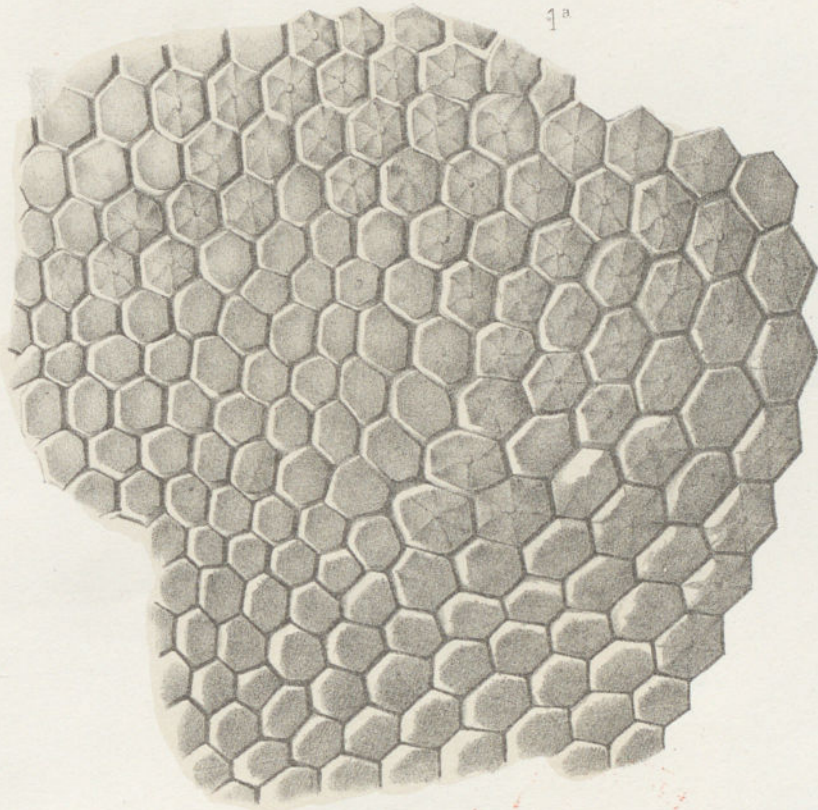


A. Leuba lith.

G. Masson Editeur.

Imp. Lemercier et C^e Paris

1-5. *Goniolina géométrica*, d'Orb.

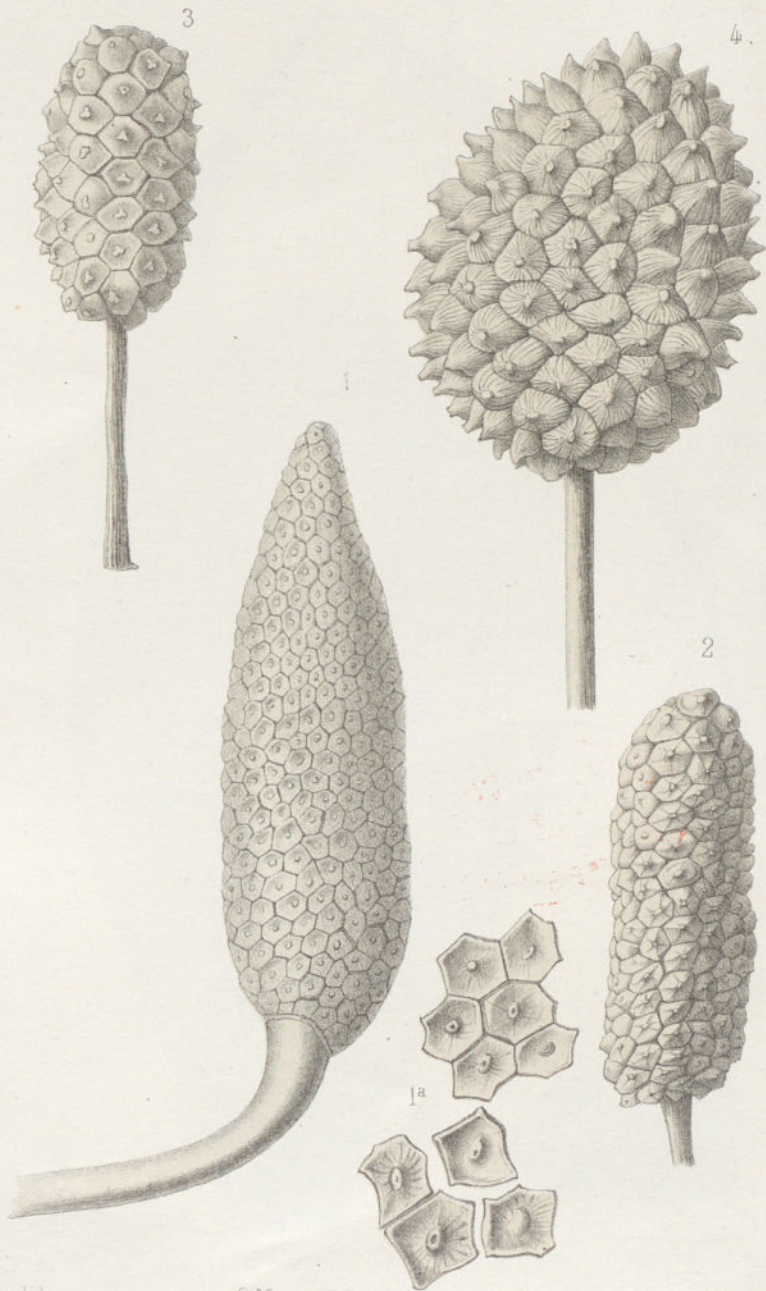


A. Leubantli.

C. Masson Editeur.

Imp. Lemercier et C^{ie} Paris.

1. *Goniolites geometrica*, d'Orb.



A. Leuba lith.

C. Masson Editeur

Imp. Lemercier et C^{ie} Paris.

AROIDÉES ET PANDANÉES ACTUELLES

- 1 Scindapsus pepla, Schott.
- 2 Sussea (Pandanus) microstigma, Gaud.
- 3 Freycinetia Sp. (Nouvelle Calédonie).



A. Leuba lith.

G. Masson, Editeur

Imp. Lemercier & C^e Paris

1. Pandanus, espèce de la Nouvelle-Calédonie.



A. Leuba lith

G. Masson, Editeur

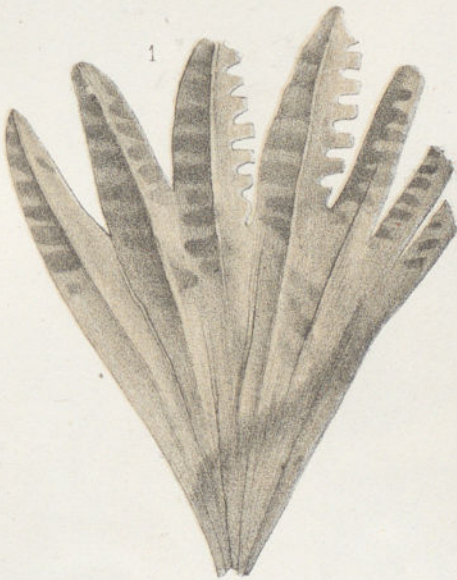
Imp. Lemercier et C^{ie}

1-2. *Weltrichia mirabilis*, F. Br.
3. _____ *Fabrei*, Sap

2



1



3



A. Leuba lith.

G. Masson, Editeur

Imp. Lemercier et C^{ie}

1. *Weltrichia mirabilis*, F. Br.
2-3. _____ *oolithica*, Sap.

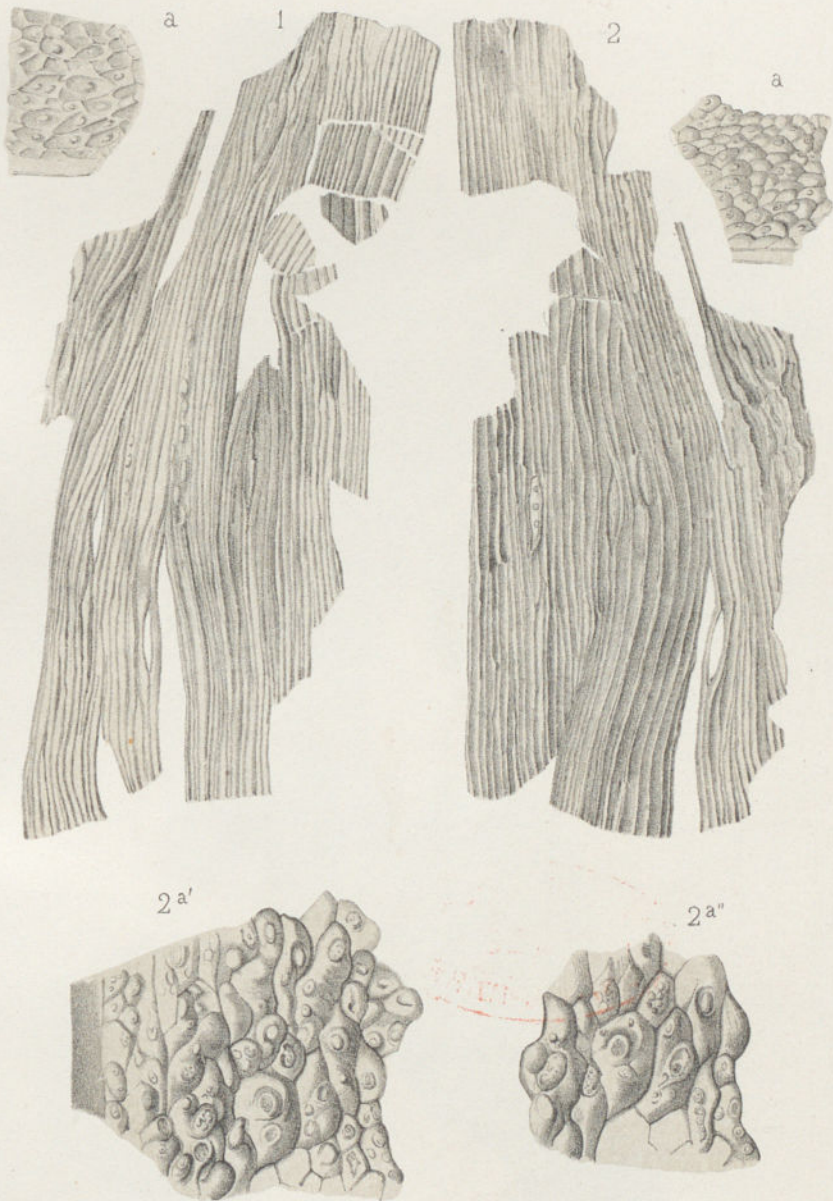


A. Leuba lith.

G. Masson, Editeur

Imp. Lemercier & C^o Paris

1.3. *Changarniera inquirenda*, Sap.



A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie} Paris.

1.2. *Changarniera inquirenda*, Sap.



A. Leuba lith.

G. Masson Editeur

Imp. Lemercier & C^{ie} Paris

1.2. *Changarniera inquirenda*, Sap.



A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & Co^{rs}, Paris

1-5. *Changarniera inquirenda*, Sap.



A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & Co^{ie}, Paris.

1-9. *Changarniera inquirenda*, Sap.



A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie}, Paris.

1-2. *Changarniera inquirenda*, Sap.
 3. *Palæospadix Girardoti*, Sap.



A Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie}, Paris.

1-3 et 7. *Palæospadix stenocladus*, Sap. — 4 et 6. *Palæospadix spathæformis*, Sap.
 5 et 10 _____ *furcatus* Sap. — 8 _____ *cornutus*, Sap.
 9. *Palæospadix Girardoti*, Sap.



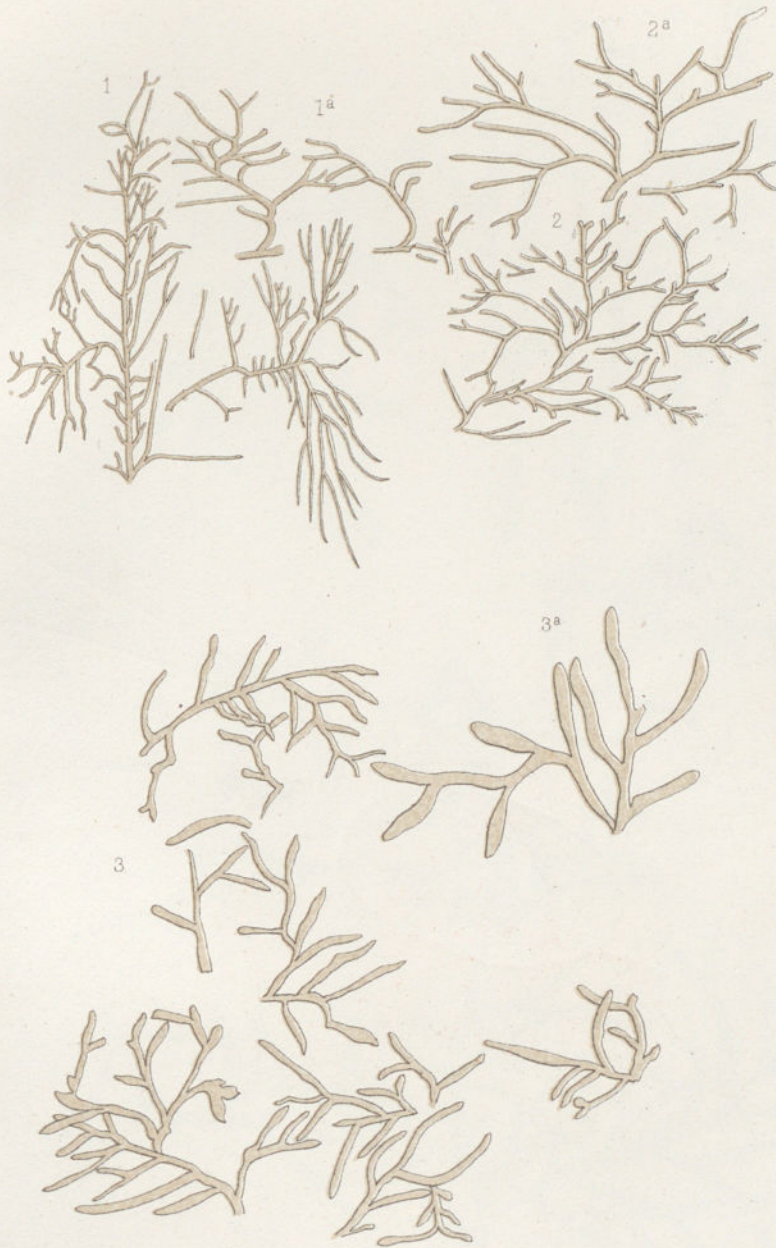
A. Leuba lith.

G. Masson, Editeur

Imp. Lemercier & C^{ie} Paris.

Cylindrites Conspicuus, Sap.



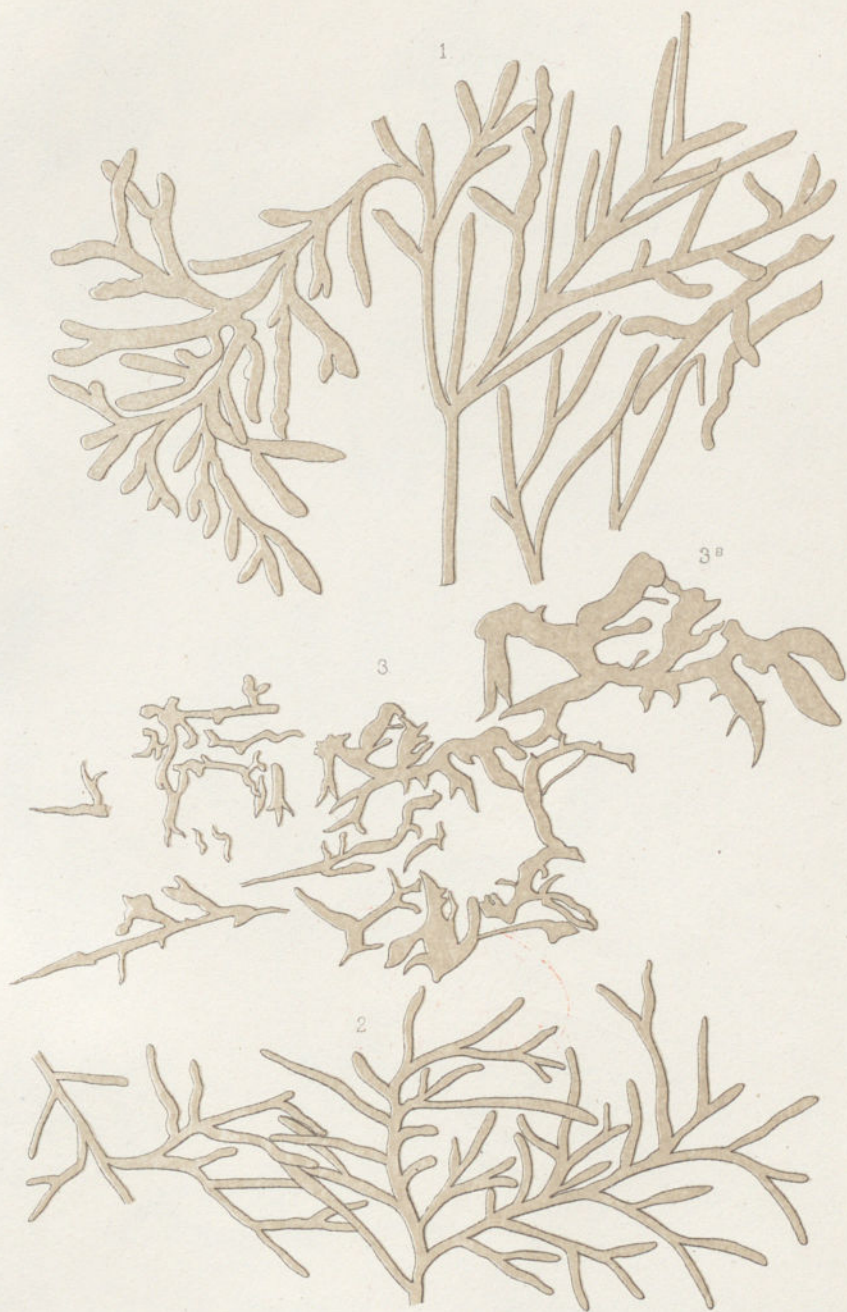


A. Leuba lith.

G. Masson, Editeur

Imp. Lemercier & Co^{ie} Paris.

1. *Palæochondrites Gourdoni* Sap. (Silurien)
2. *Chondrites intricatus Fischeri*, Hr. (Crétacé Sup.)
3. _____ *filicinus*, Sap. (Jurassique).



A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie} Paris

1. *Chondrites aragonensis*, Sap.
2. _____ *assimilis*, Sap.
3. *Halymentes pyrenaicus*, Sap.



A. Leuba lith.

G. Masson, Editeur

Imp. Lemercier & C^{ie}, Paris

1-2. *Agarites fenestratus*, Sap. 3-4. *Chondrites squamosulus*, Sap.
5-6. *Halymenites crussoli*, Sap. 7. *Chondrites inflexus*, Sap.

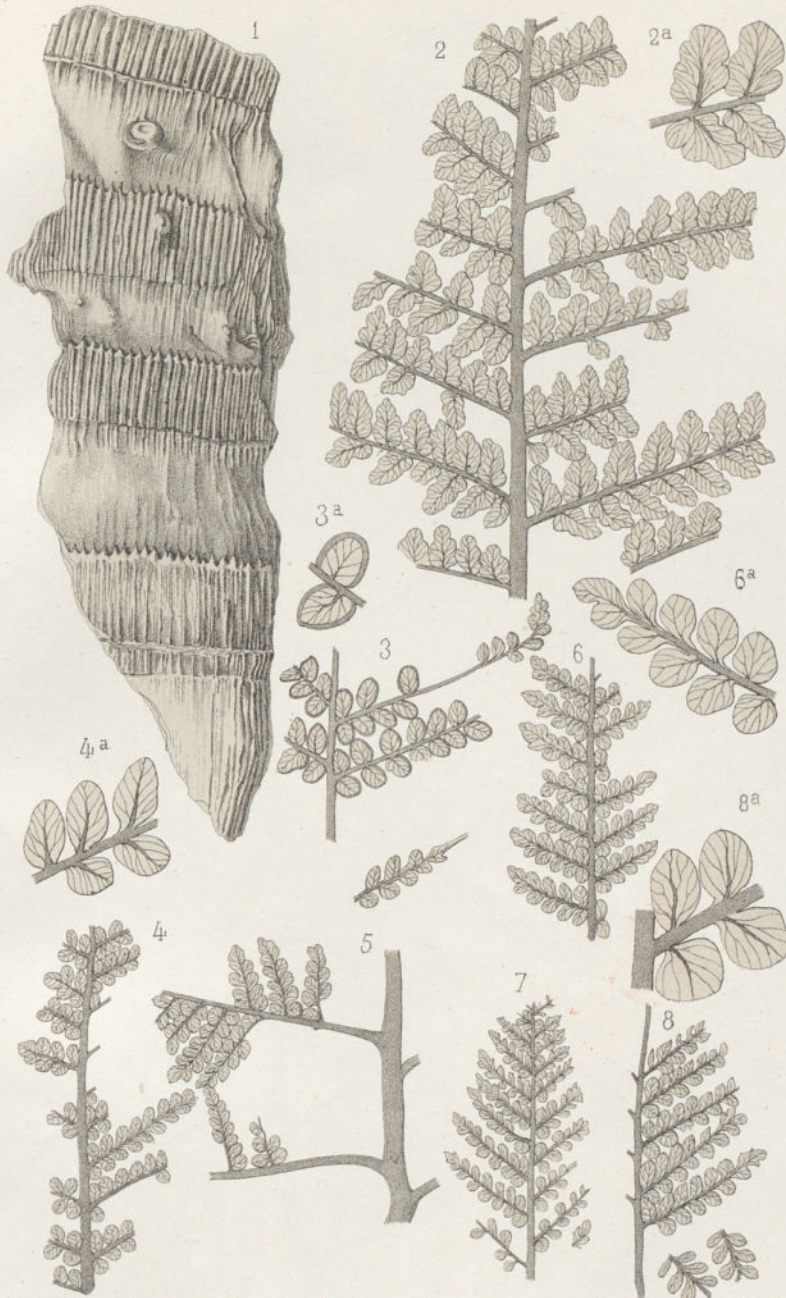


A Leuba lith.

G Masson, Editeur

Imp. Lemercier & C^o Paris

- | | |
|--|---|
| 1. <i>Phyllothea asterophyllina</i> , Sap. | 5.6. <i>Stachypteris minuta</i> , Sap. |
| 2.3. <i>Ctenopteris Girardoti</i> , Sap. | 7. <i>Cladophlebis Moisseneti</i> var. <i>tenuis</i> , Sap. |
| 4. <i>Sphenopteris Choffatiana</i> , Hr. | 8. _____ <i>socia</i> , Sap. |



A. Leuba lith.

G. Masson Editeur

Imp. Lemercier & C^{ie} Paris.

1. *Equisetum lusitanicum*, Hr. — 2. *Sphenopteris Choffatiana*, Hr.
3-8. *Cladophlebis Moisseneti*, Sap.



A. Leubalith

G. Masson, Editeur

Imp. Lemercier & C^{ie}, Paris

- | | |
|--|--|
| 1. <i>Cladophlebis exiguiloba</i> , Sap. | 5. _____ <i>gracilior</i> , Sap. |
| 2. 3. _____ <i>socia</i> , Sap. | 6. <i>Sphenopteris Choffatiana</i> , Hr. |
| 4 et 7. _____ <i>pusilla</i> , Sap. | 8. _____ <i>tenuior</i> , Sap. |



A. Leuba lith.

G. Masson, Editeur

Imp. Lemercier & C^{ie} Paris.

1. *Sphenopteris Choffatiana*, Hr. — 2. 4. *Scleropteris tenuisecta*, Sap.
 5. *Sphenopteris macilentata*, Sap. — 6. 7. ——— *rotundiloba*, Sap.
 8. 14. *Ctenopteris Changarnieri*, Sap.



A. Leuba lith.

G. Masson, Editeur

Imp. Lemercier & C^{ie} Paris

1. *Thinnfeldia incisa*, Sap. — 2. *Neuropteridium lacerum*, Sap.
 3. *Cladophlebis socia*, Sap. — 4. ———— *adjuncta*, Sap.
 5. *Sphenopteris minutula*, Sap. — 6. 7. *Scleropteris tenuisecta*, Sap.



A. Leubalith

G. Masson, Editeur

Imp. Lemercier & C^{ie} Paris

1. *Lomatopteris ambigua*, Sap. — 2. *Sphenopteris lacera*, Sap.
 3. _____ *subcrenulata*, Sap. — 4. 5. _____ *minutula*, Sap.



A. Leubalith

G. Masson, Editeur

Imp. Lemercier & C^{ie}, Paris.

1. *Thinnfeldia obtusiloba*, Sap.
2. *Cladophlebis whitbiensis* var. *obtusata*, Sap.
3. *Neuropteridium repertum*, Sap.

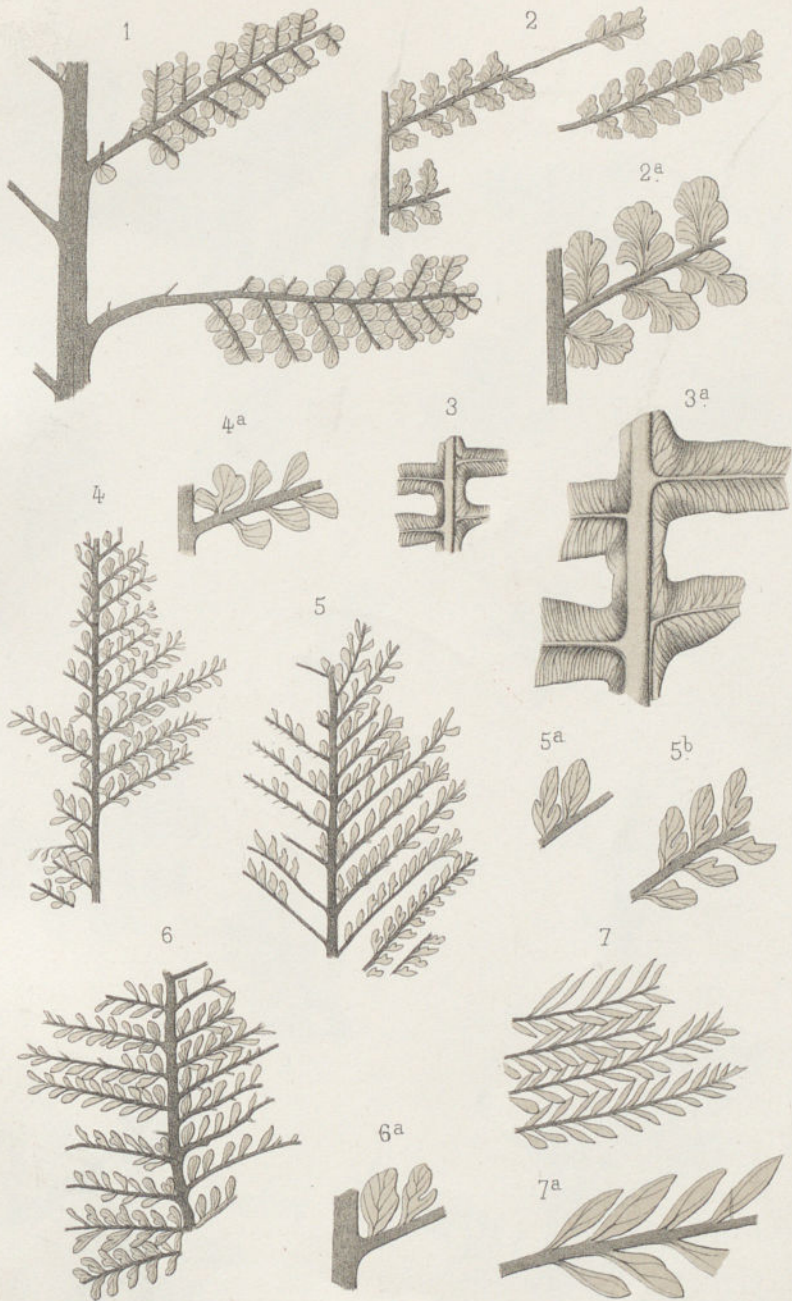


A Leubalith.

G. Masson, Editeur

Imp. Lemercier & C^{ie}, Paris.

1. *Ctenopteris Dagincourtii*, Sap.



A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie} Paris.

1. *Cladophlebis Moisseneti*, Sap. — 2. *Sphenopteris Choffatiana*, Hr.
3. *Laccopteris Fabrei*, Sap. — 4_6. *Scleropteris tenuisecta*, Sap.
7. *Scleropteris Pomelii*, Sap.

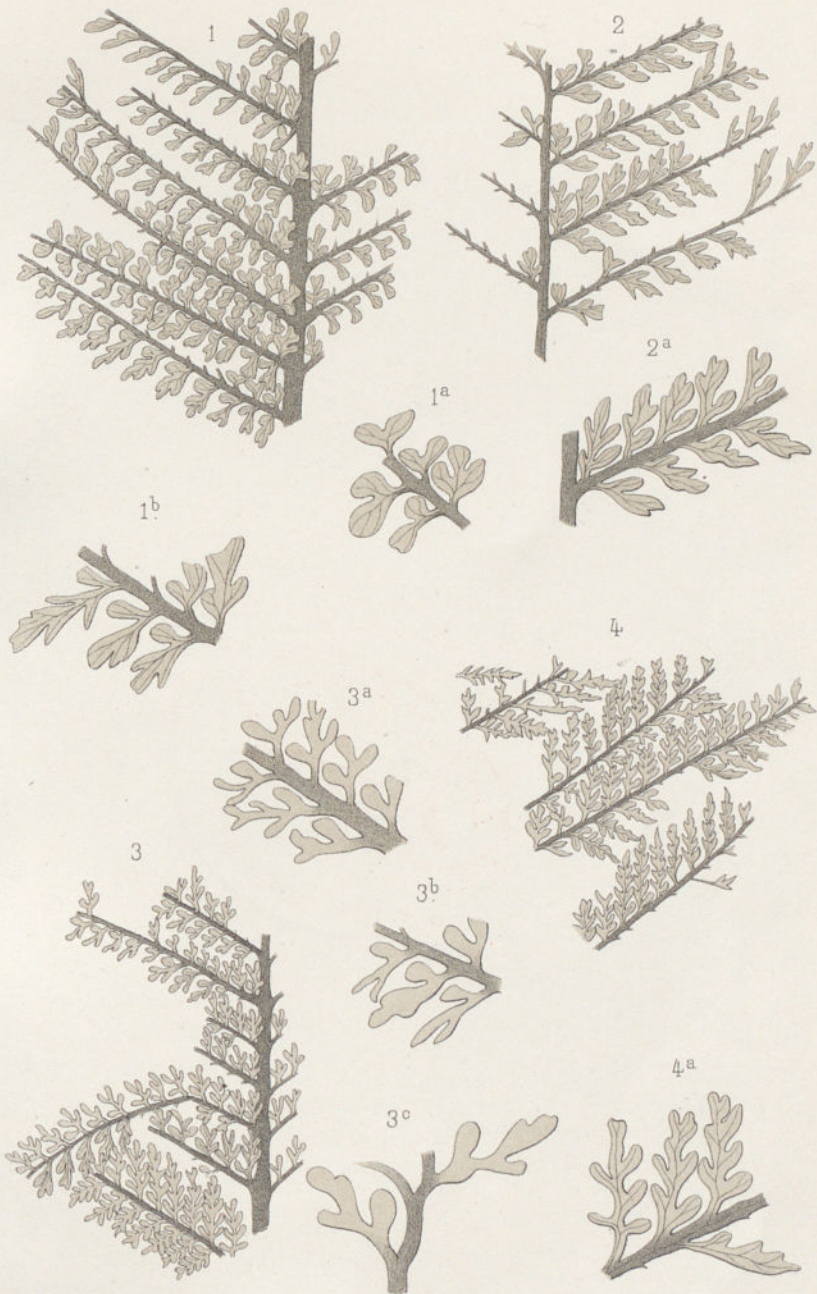


A. Leuba lith.

G. Masson, Editeur

Imp. Lemercier & C^{ie}, Paris.

1 et 3_5. *Scleropteris tenuisecta*, Sap.
2 et 6_7. _____ *Pomelii*, Sap.

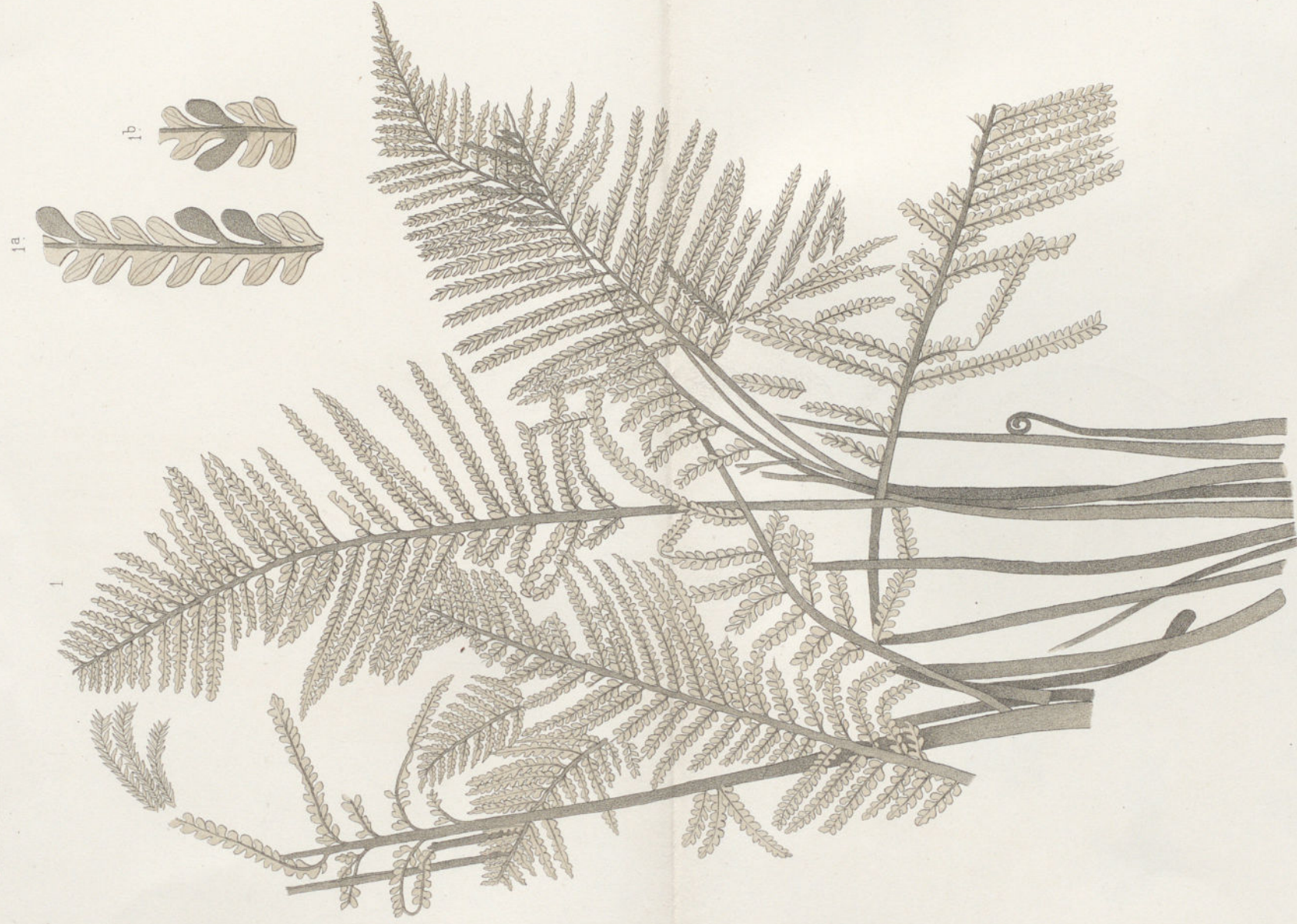


A. Leubalith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie}, Paris.

1_4. *Scleropteris tenuisecta*, Sap.



A. Leuba lith.

G. Masson, Editeur.

Imp. Lœmencier & C^{ie}, Paris.

1. *Scleropteris Zeileri*, Sap.



A. Leubalith.

G. Masson Editeur.

Imp. Lemercier & C^{ie}, Paris

1 *Stachypteris spicans*, Pom.
2 _____ *litophylla* Pom.



A. Leubalith.

G. Masson, Editeur

Imp. Lemerrier & C^{ie}, Paris.

1. 3. *Stachypteris litophylla*, Pom. — 4. *Stachypteris spicans*, Pom.
 5_6. *Stachypteris minuta*, Sap.

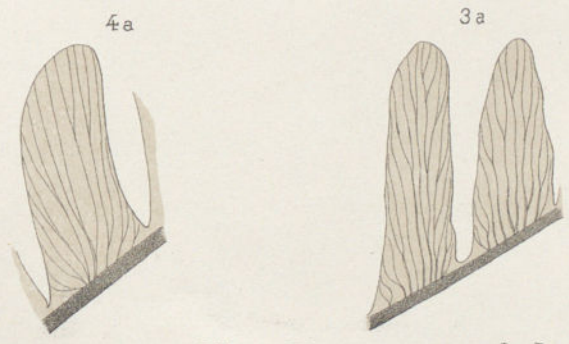
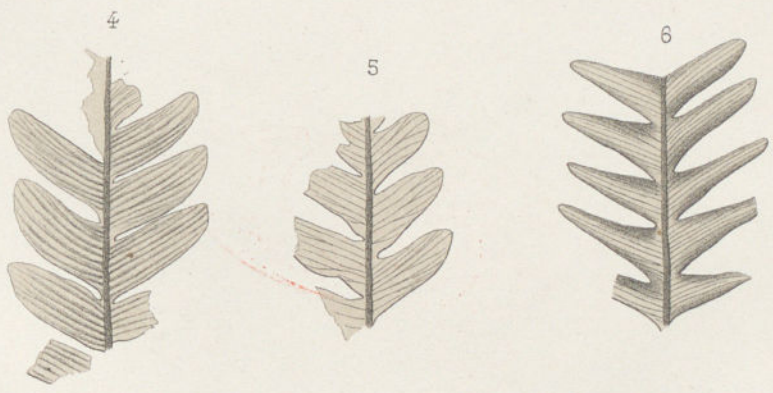
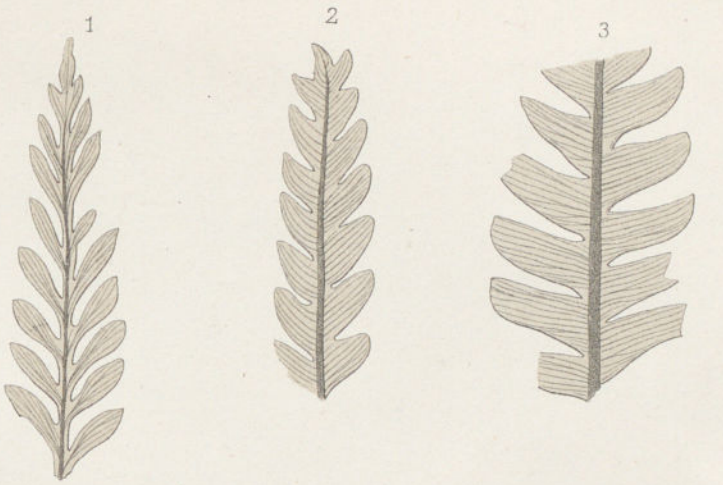


A. Leuba lith.

G. Masson Editeur

Imp. Lemercier & Co Paris.

1-2. *Hymenophyllites dehcatus* Sap. — 3-6. *Cladophlebis pusilla* Sap.
7. *Cladophlebis socia*, Sap. — 8-10. *Stachypteris minuta*, Sap.
11. *Sphenopteris tenuior*, Sap.

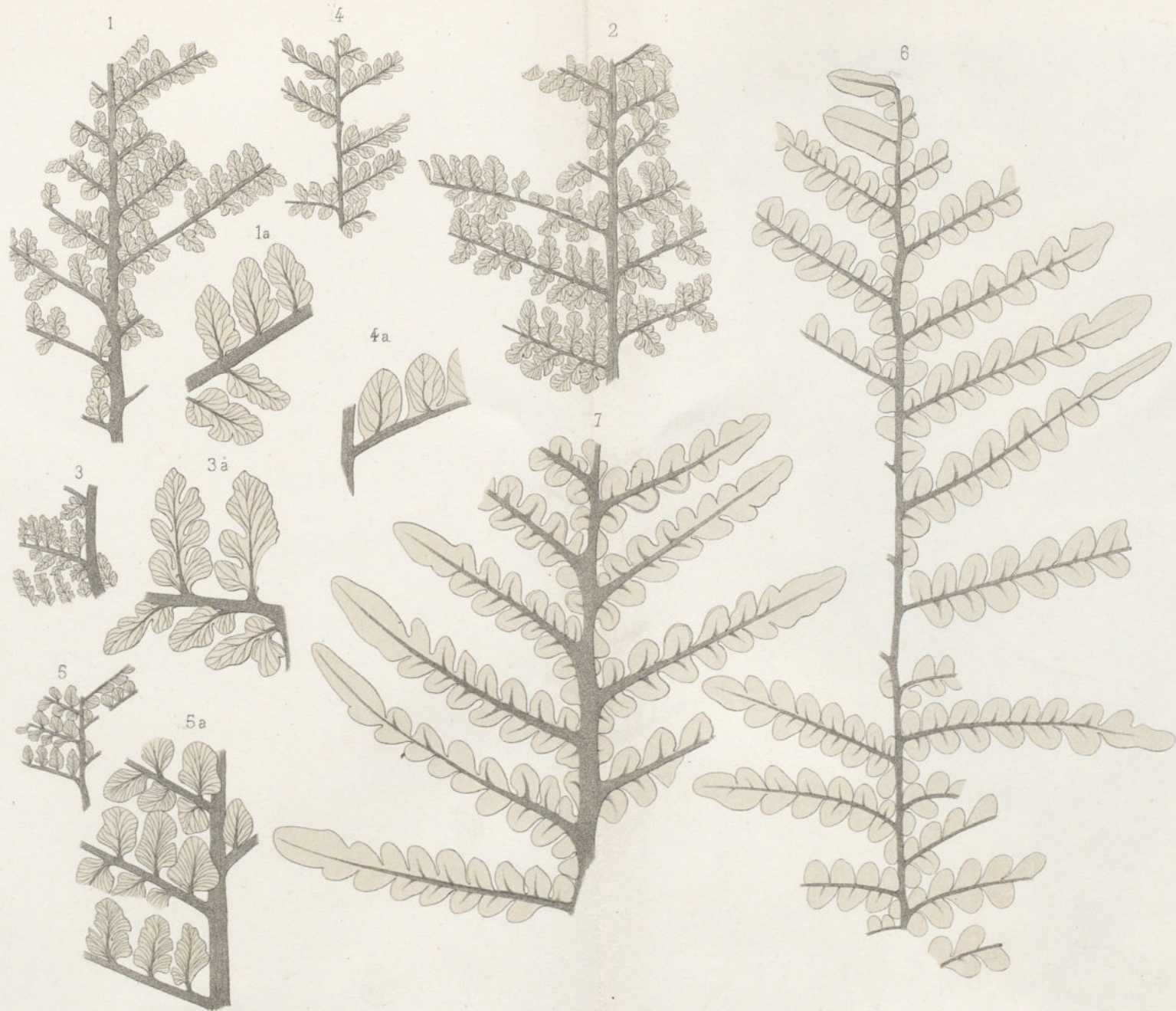


A. Leuba lith.

G. Masson. Editeur

Imp. Lemercier & C^{ie} Paris.

1. 6. *Ctenopteris cycadea*, Brngt.

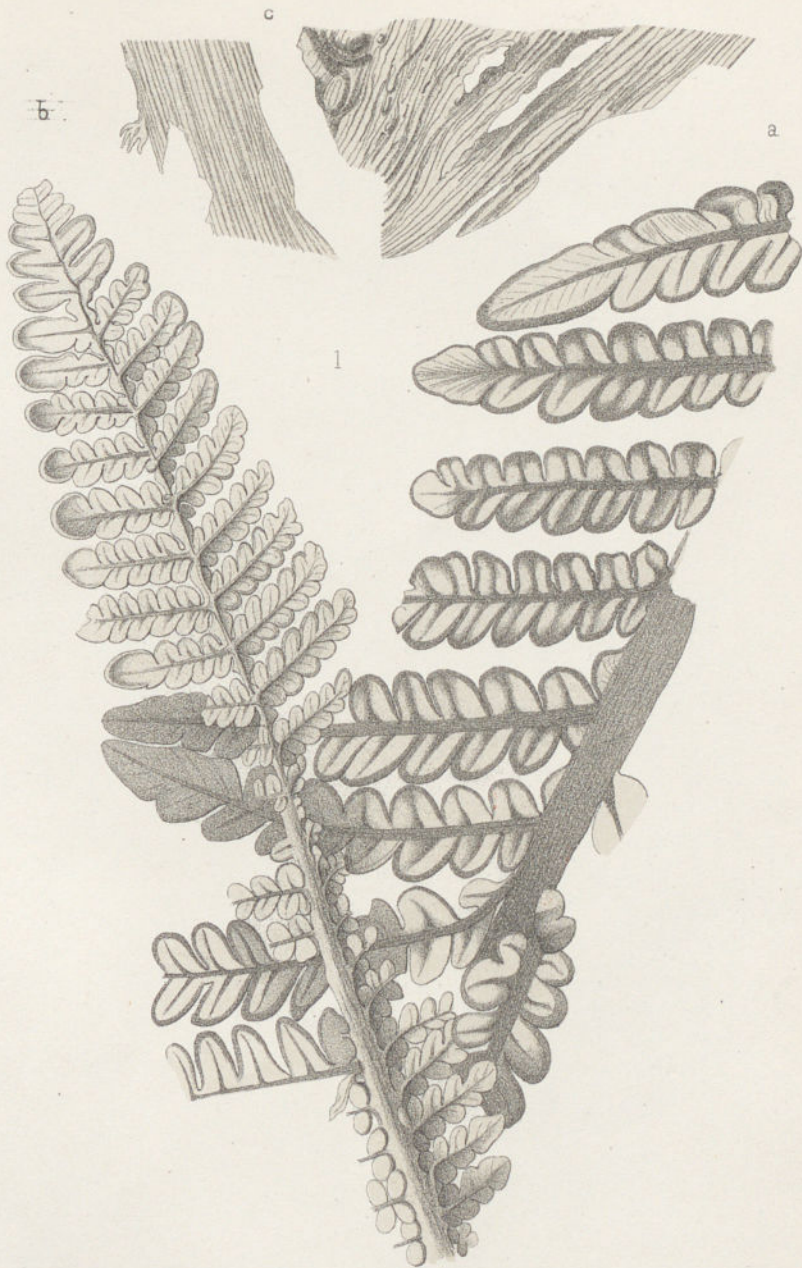


Al. Leuba lith.

G. Masson Editeur

Imp. Lemercier & C^o Paris

1-2. et 5. *Sphenopteris* Chauffatiana, Hr. — 3. *Sphenopteris* tenuior, Sap.
4. *Cladophlebis* Moisseneti Sap. — 6-7. *Lomapteris* liasina, Mor.



A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie}, Paris.

1. *Lomatopteris burgundiaca*, Sap.

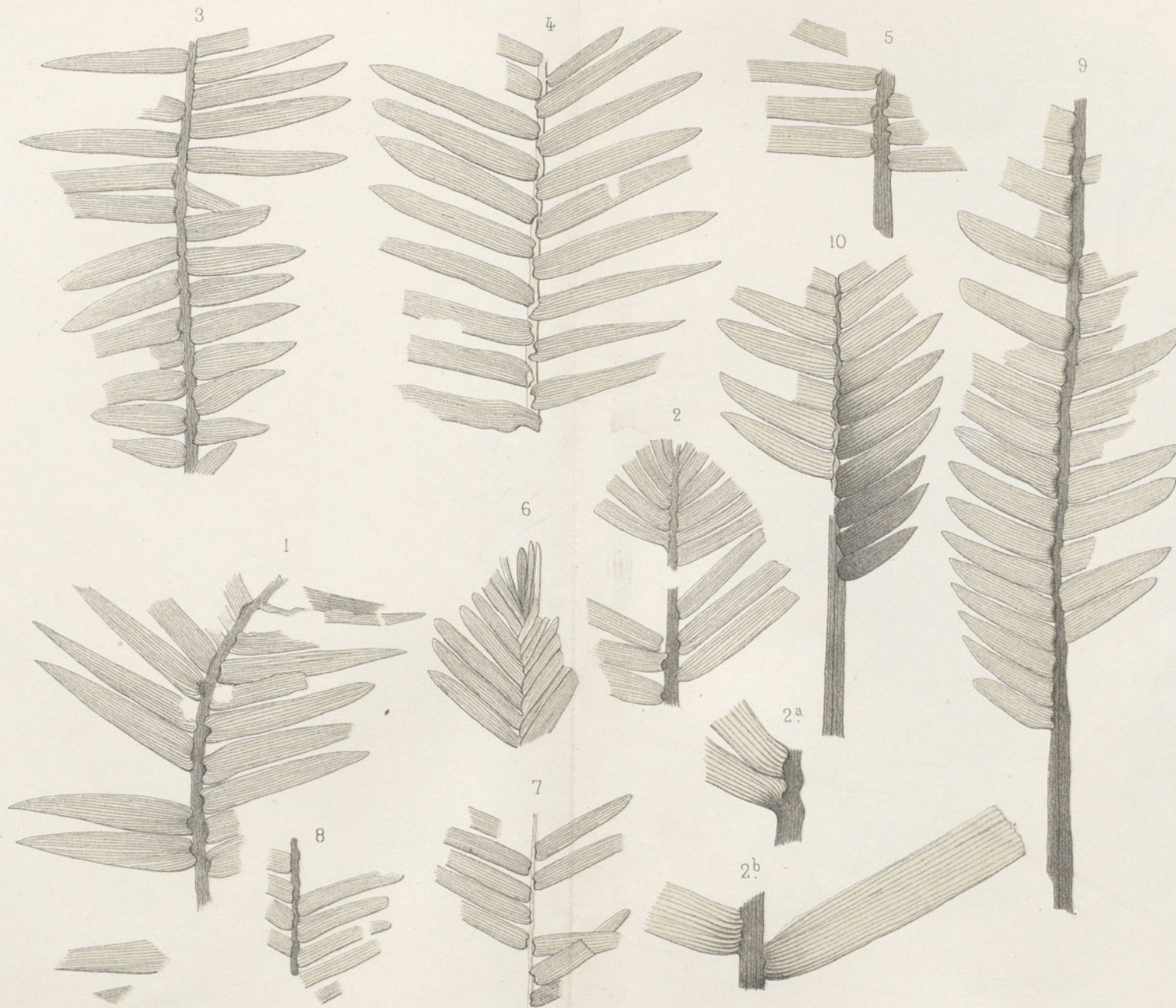


A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie}, Paris.

1-9. *Zamites Feneonis*, Brnqt. — 10. *Zamites formosus*, Hr.
11. *Zamites pumilio*, Sap.

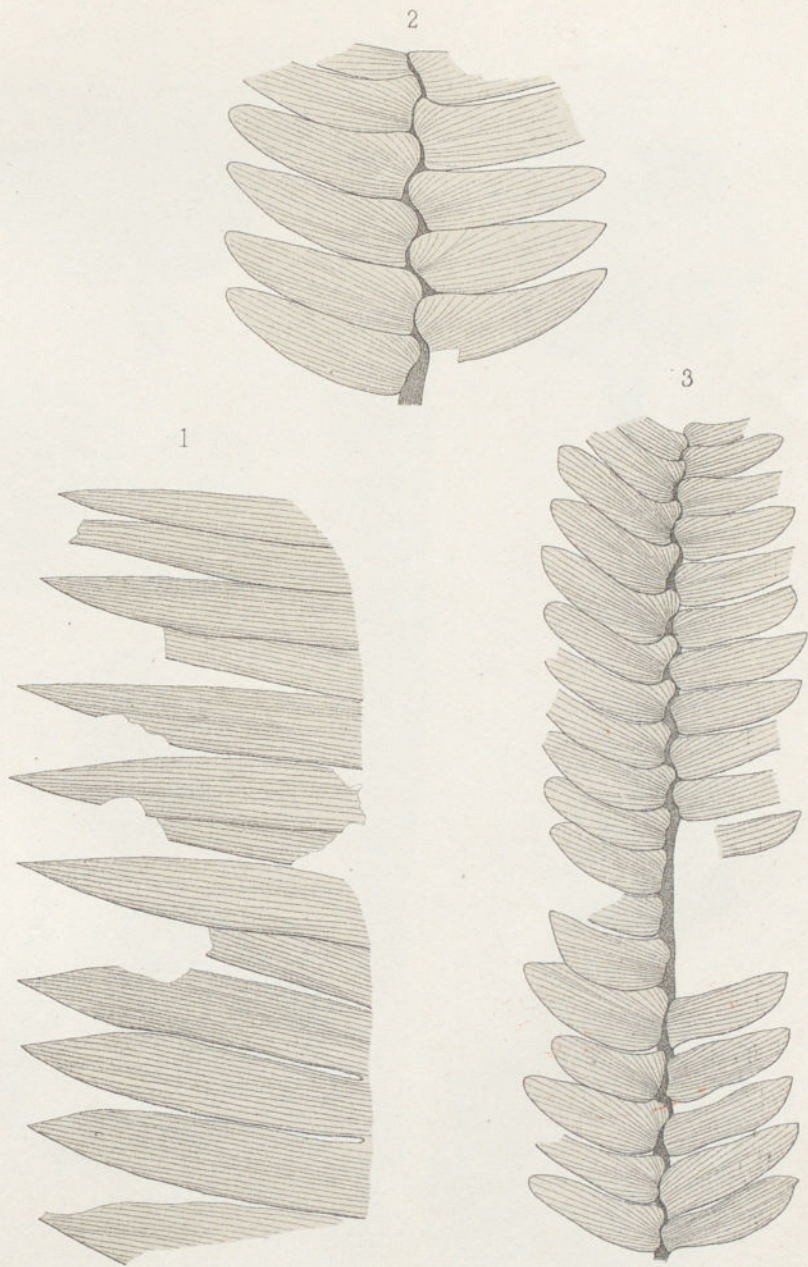


A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie}, Paris.

1. *Zamites Feneonis* Brngt. * 2_8. *Zamites formosus*, Hr.
9_10. *Zamites senior*, Sap.

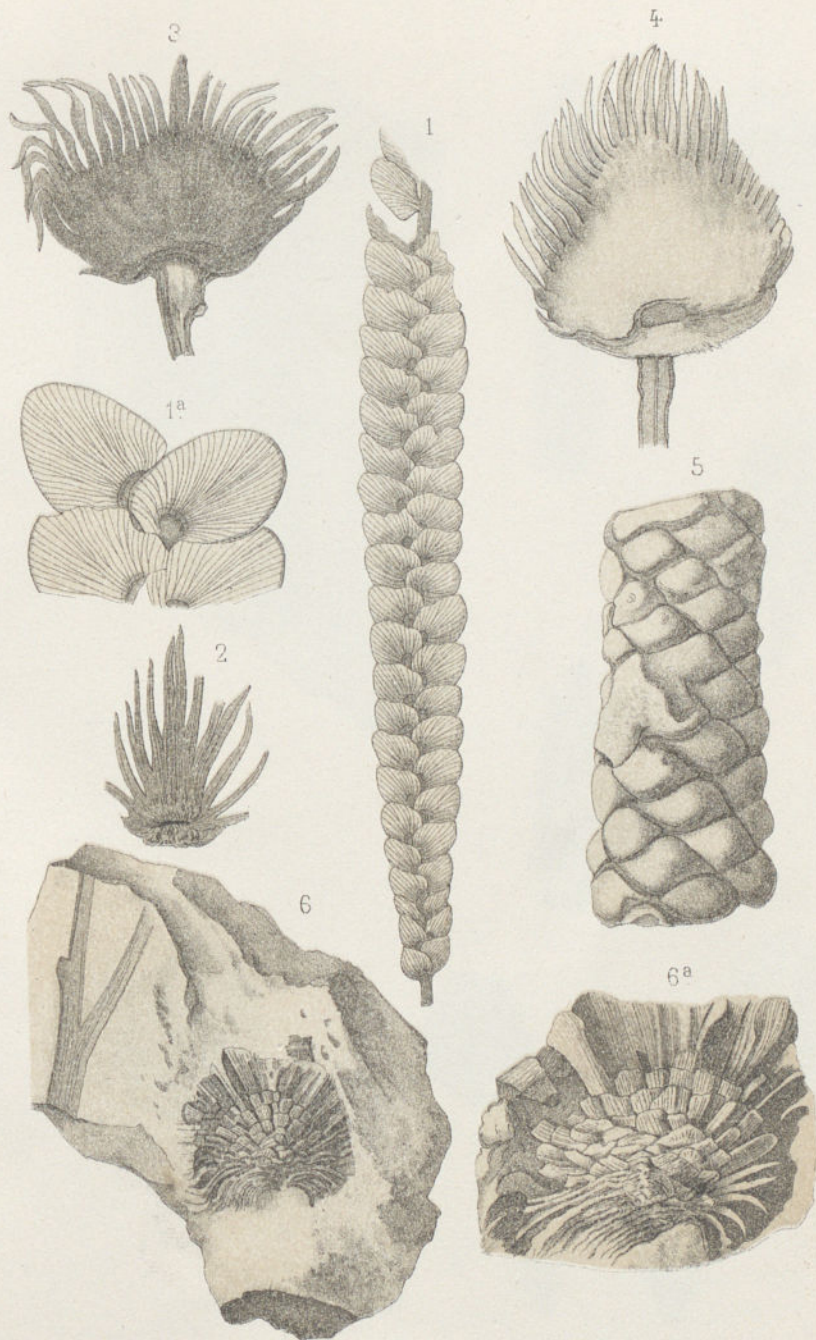


A. Leuba lith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie}, Paris.

1. *Zamites fallax*, Sap.
2. *Otozamites Hennoquei*, Pom.
3. ———— *Terquemi*, Sap.



A. Leubalith

G. Masson, Editeur

Imp. Lemercier & C^{ie}, Paris

1. *Otozamites Bunburyanus*, Zign. — 2. *Cycadospadix Moræanus*, Sap.
3. 4. *Cycadospadix Pasinianus*, Zign. — 5. *Cylindropodium Rollandi*, Sap.
6. *Platylepis Echinus*, Sap.



A. Leubalith.

G. Masson, Editeur

Imp. Lemereier & C^{ie} Paris

1. 2. *Brachyphyllum hettangense*, Sap. — 3. 4. *Cycadeospermum Berlieri*, Sap.
5. *Cycadeospermum Choffati*, Sap. — 6. 7. *Chara Maillardi*, Sap.

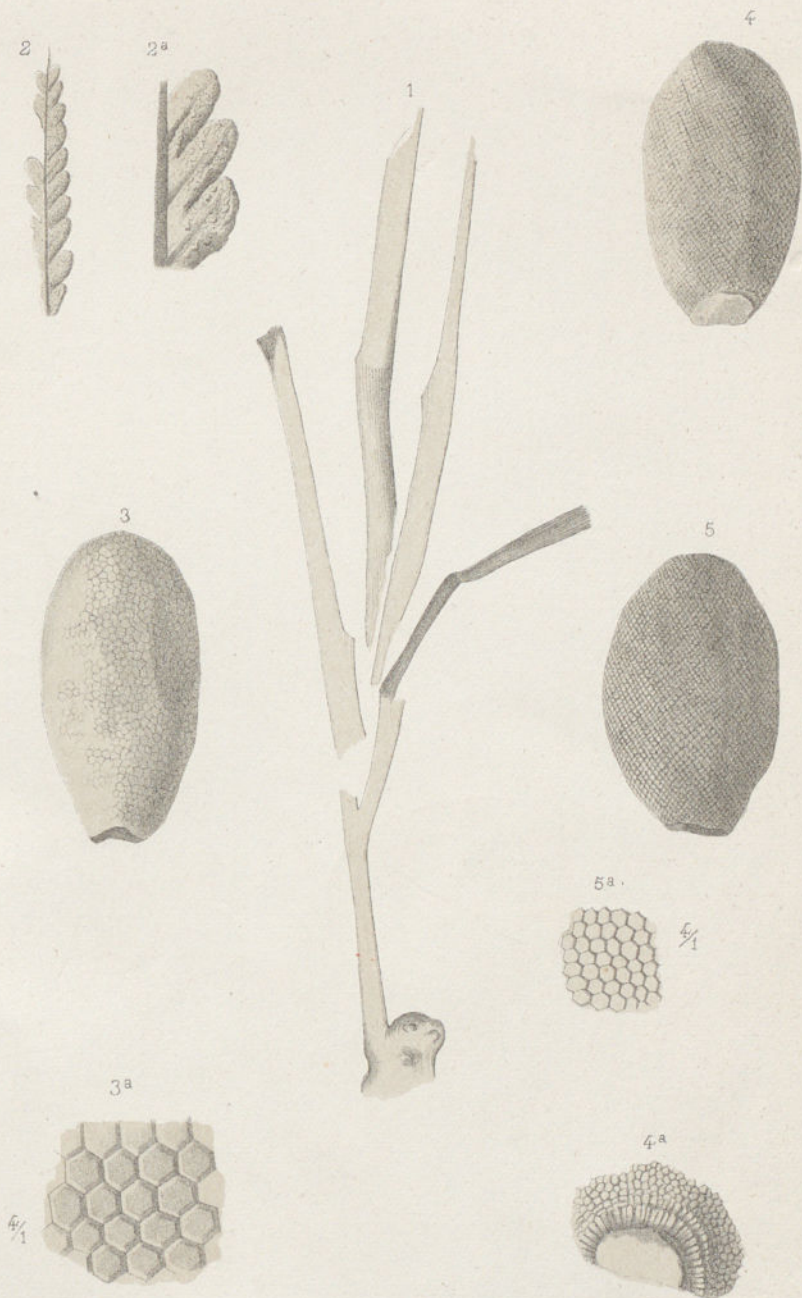


A. Leubalith.

G. Masson Editeur

Imp. Lemerrier & C^{ie} Paris

1. *Yuccites angustifolius*, Sap. — 2, 3 et 7. *Brachyphyllum Jauberti*, Sap. — 4, 5, 6. *Brachyphyllum Desnoyersii* (Brngt), Sap.
8, 9, 10, 11. *Pachyphyllum curtifolium*, Sap. — *Brachyphyllum Moreauanum*, Brngt. — 12. *Cheirolepis obscura*, Sap.
13. *Echinostrobus Moisseneti*, Sap. — 14, 15, 16, 17, 18, 19. *Widdringtonites megalophyllum*, Sap.



A. Leubalith.

G. Masson, Editeur.

Imp. Lemercier & C^{ie} Paris.

1. *Zonarites gracillimus*, Sap. — 2. *Lonchopteris rugosula*, Sap.
 3. *Goniolina Janeti*, Sap. — 4. 5. *Goniolina micromera*, Sap.