

A hand-list of the Jamaica ferns and their allies / by G.S. Jenman.

Contributors

Jenman, G. S. 1845-1902.

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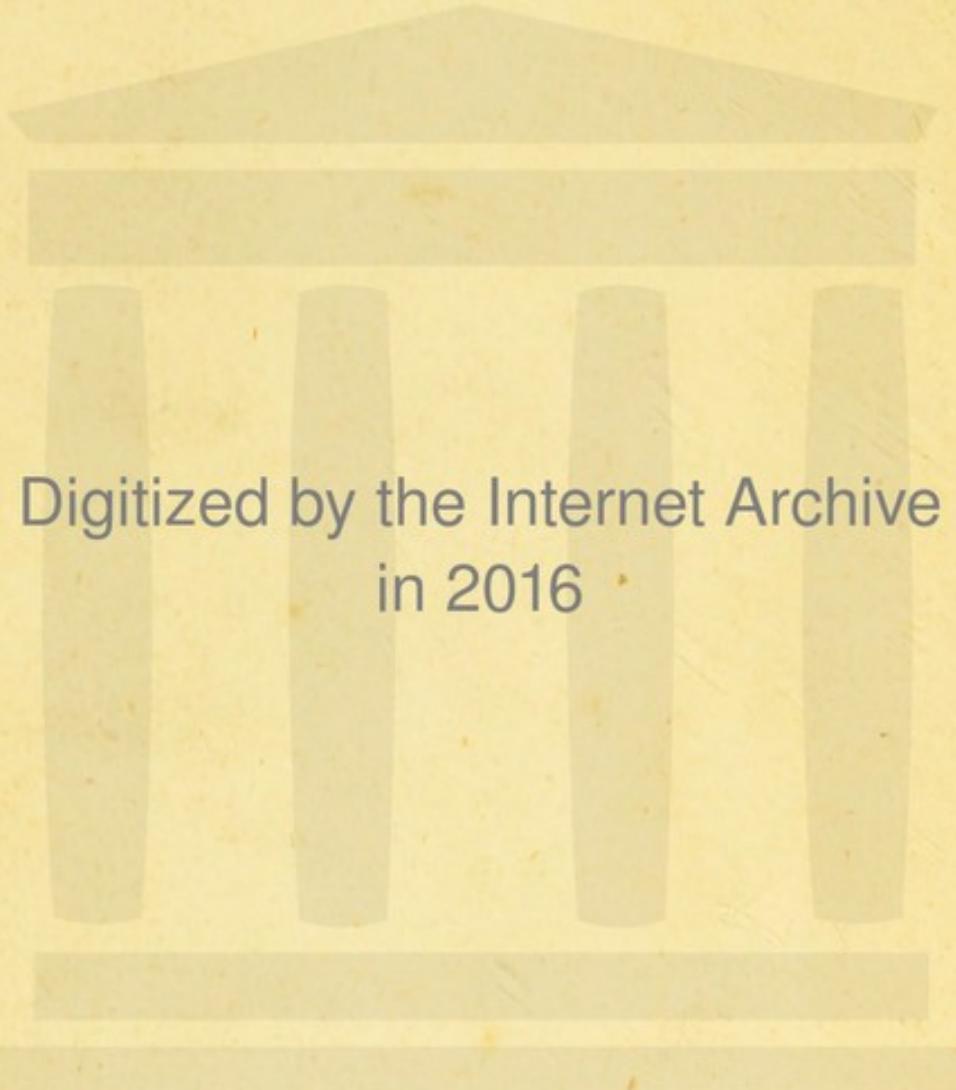
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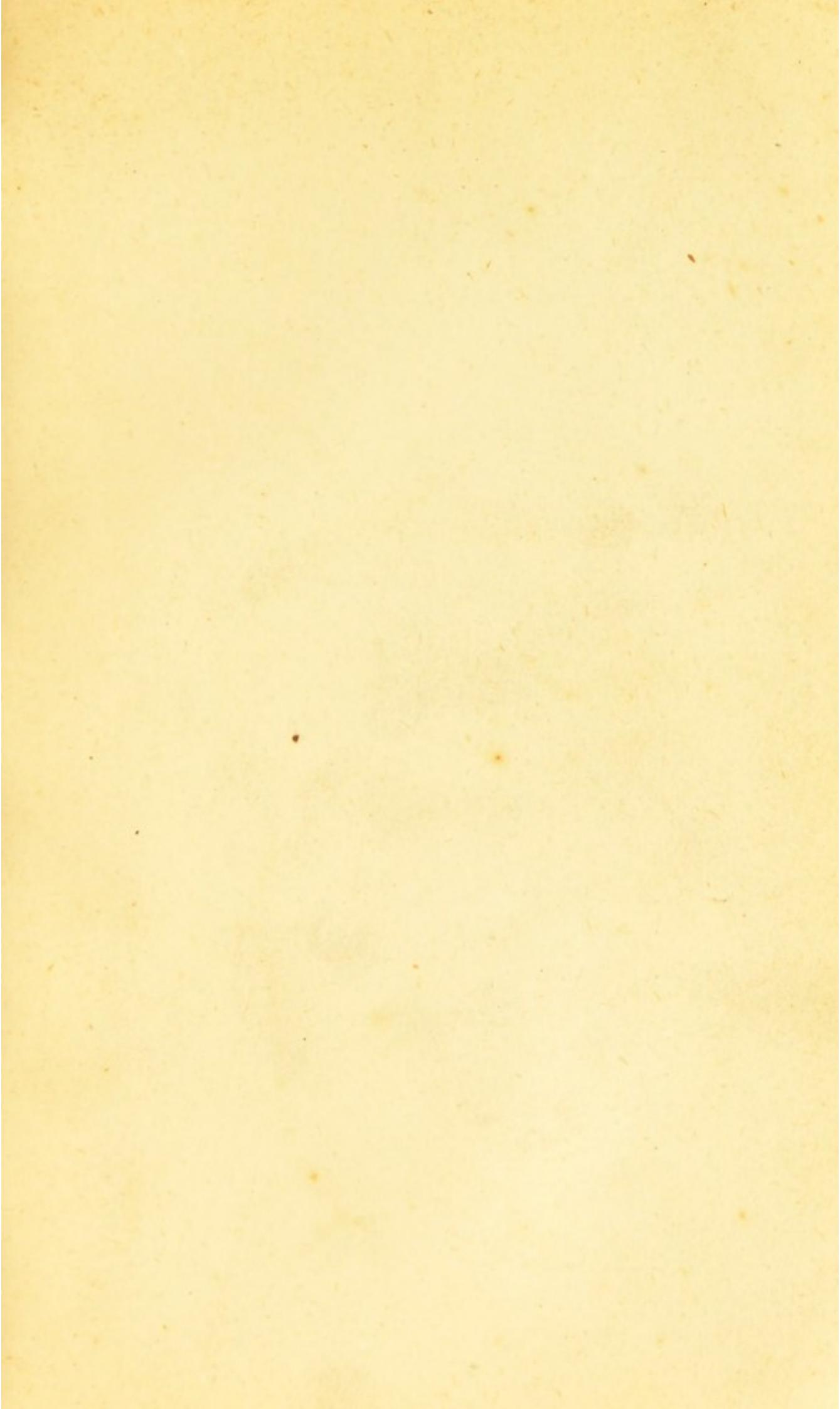
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R. V. Sherring, Hallatrow: Bristol
A HAND-LIST England

OF

THE JAMAICA FERNS

AND THEIR ALLIES,

BY

G. S. JENMAN,

GOVERNMENT BOTANIST AND SUPERINTENDENT BOTANIC GARDENS,

BRITISH GUIANA,

LATE SUPERINTENDENT BOTANIC GARDENS,

JAMAICA.



DEMERARA :

PRINTED AT BALDWIN & CO.'S, WATER STREET.

—
1881.

1942/682

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A HAND-LIST
OF THE
JAMAICA FERNS AND THEIR ALLIES.

THIS LIST of the Jamaica Ferns I drew up some time ago as a reference for my own convenience in carrying on a long, and still, delayed descriptive work on the subject, and, though a bare enumeration, it may be of service to others. The great majority of the plants mentioned I gathered myself in their homes during the years between 1874-9; the rest are included on the authority of the works of GRISEBACH, HOOKER, and BAKER. A careful scrutiny of the West India Ferns in the Kew Herbarium would doubtless prove that the List is not complete; it is however as full as my own knowledge and the specific geographical references of the reliable authors named enabled me to make it.

But it is very probable from the many previously known species that I gathered which are not definitely ascribed to Jamaica in published works, that more of the number assigned in Hooker and Baker's "*Synopsis Filicum*" to the West Indies in general, or there limited to certain of the islands, are indigenous to Jamaica. With regard to Cuba I may remark that, though it is so much larger, its physical conformation and the common character of its flora with that of Jamaica, together with its contiguity, strongly favour the presumption that a plant found in one of the countries

exists also in the other. It may therefore be expected that some of the many novelties which have of late years been discovered in Cuba will in time turn up in Jamaica.

My discoveries in Jamaica were made chiefly on the higher (southward) slopes, ridges and peaks of the Blue Mountain range, to which with the hills that abut on its southern base my labours in plant-collecting were almost entirely confined. An equally close examination of the flora of the northern slopes of the range and more particularly that of the western parishes would be of much interest and probably reveal many novelties.

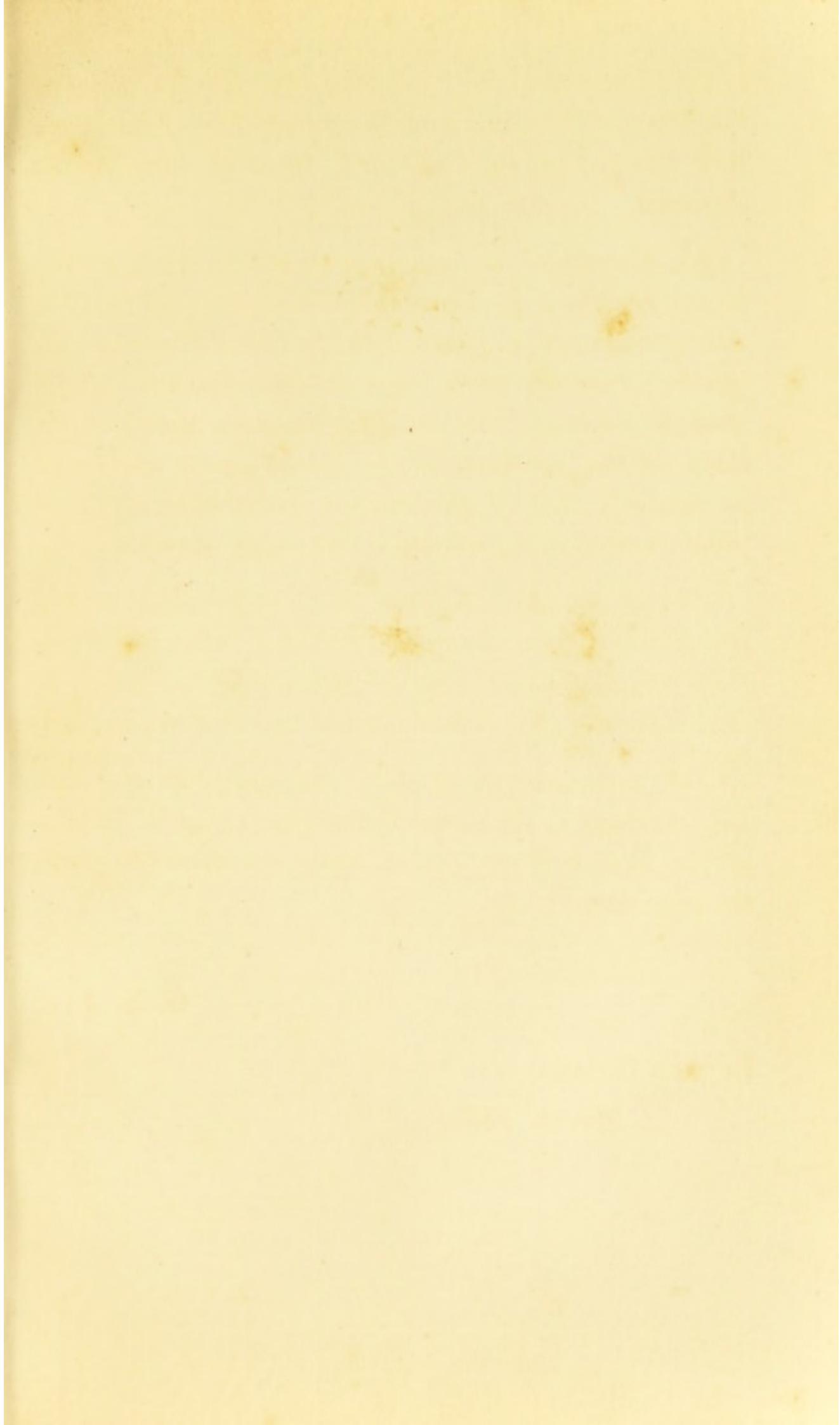
The plants which I failed in my explorations to find are followed by an asterisk. I shall be glad to receive from correspondents any of those thus indicated or any authentic Jamaica Ferns not included in this List.

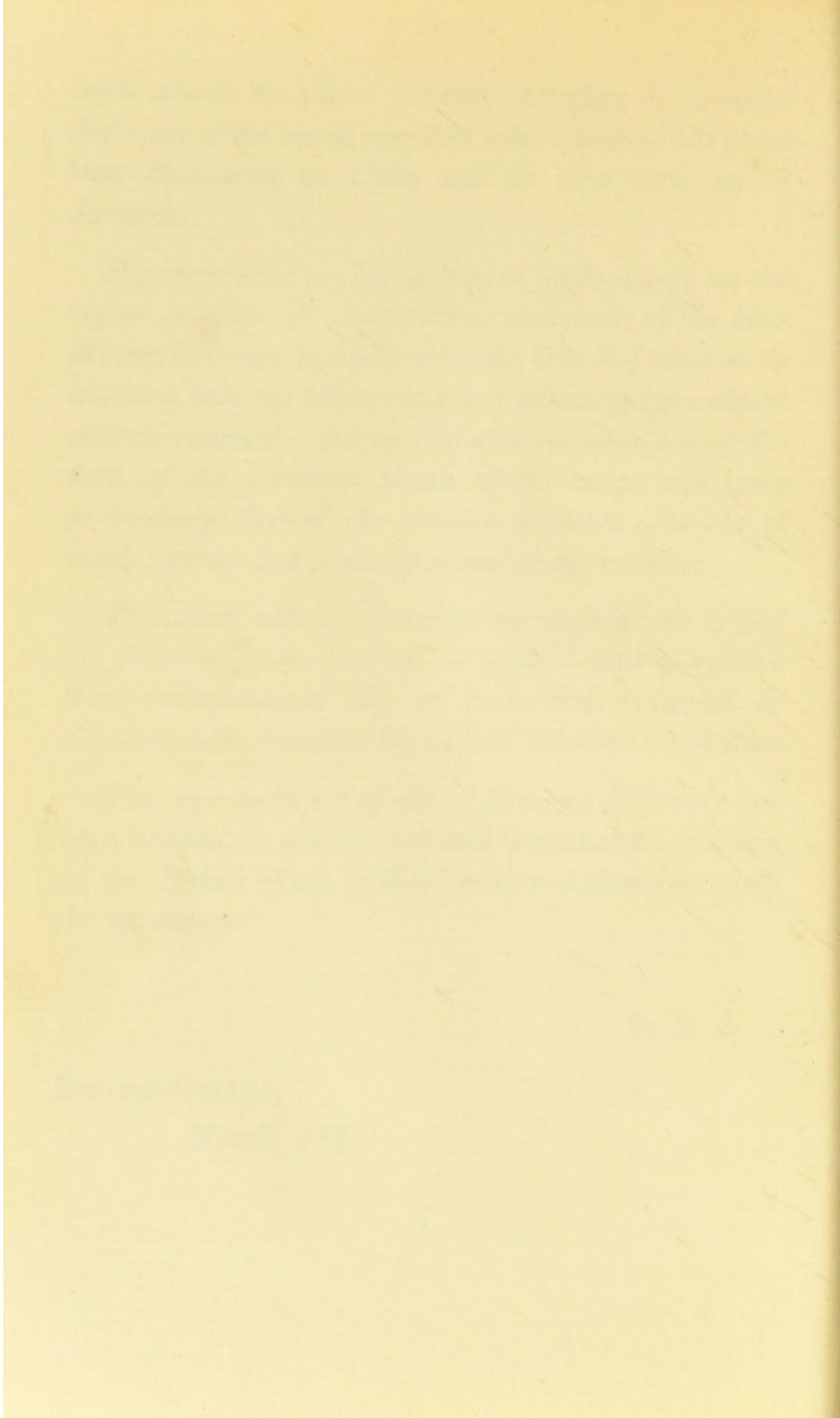
The nomenclature of the "Synopsis Filicum" has been adopted, to which work and GRISEBACH'S "Flora of the British West Indies" reference should be made for synonymy.

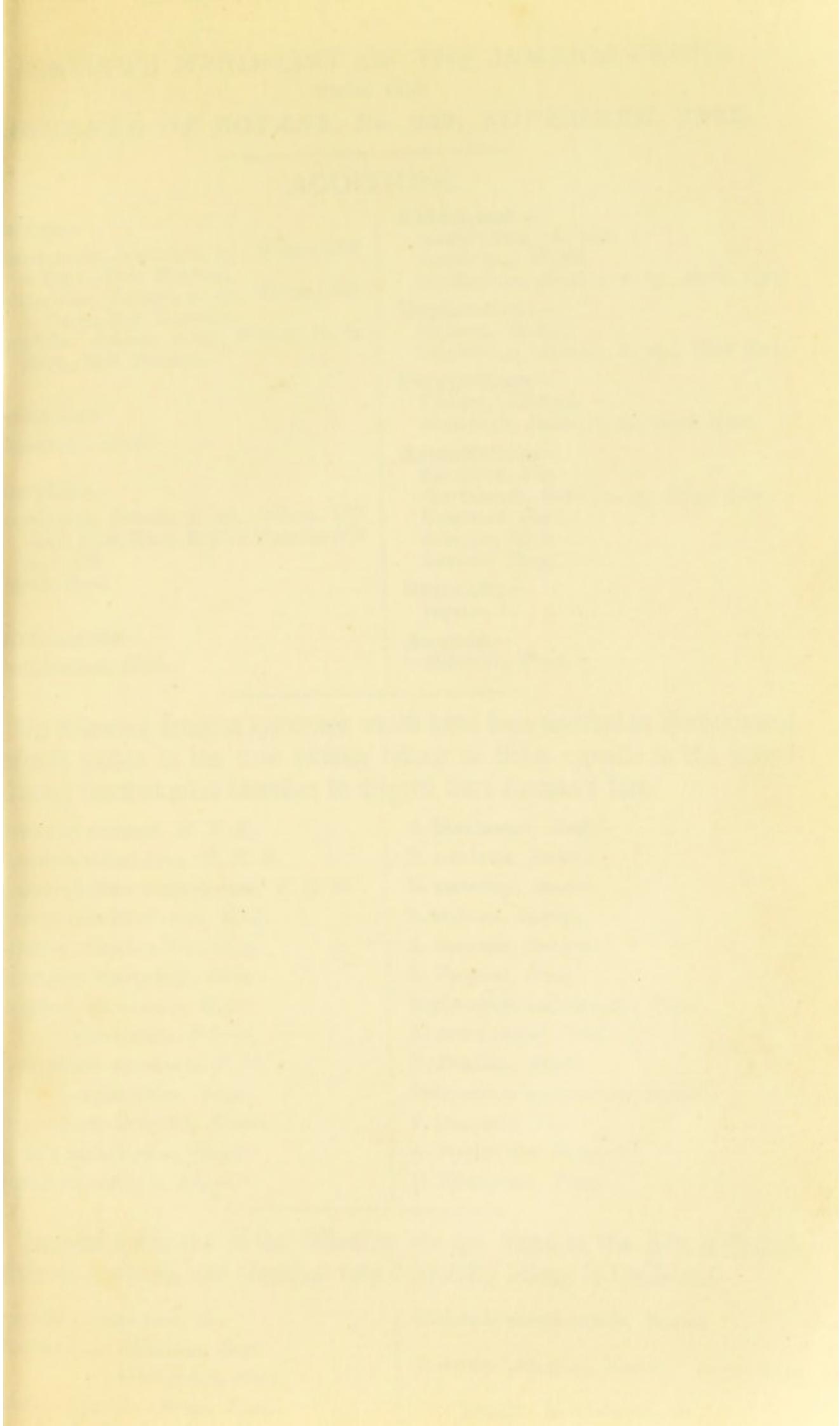
G. S. J.

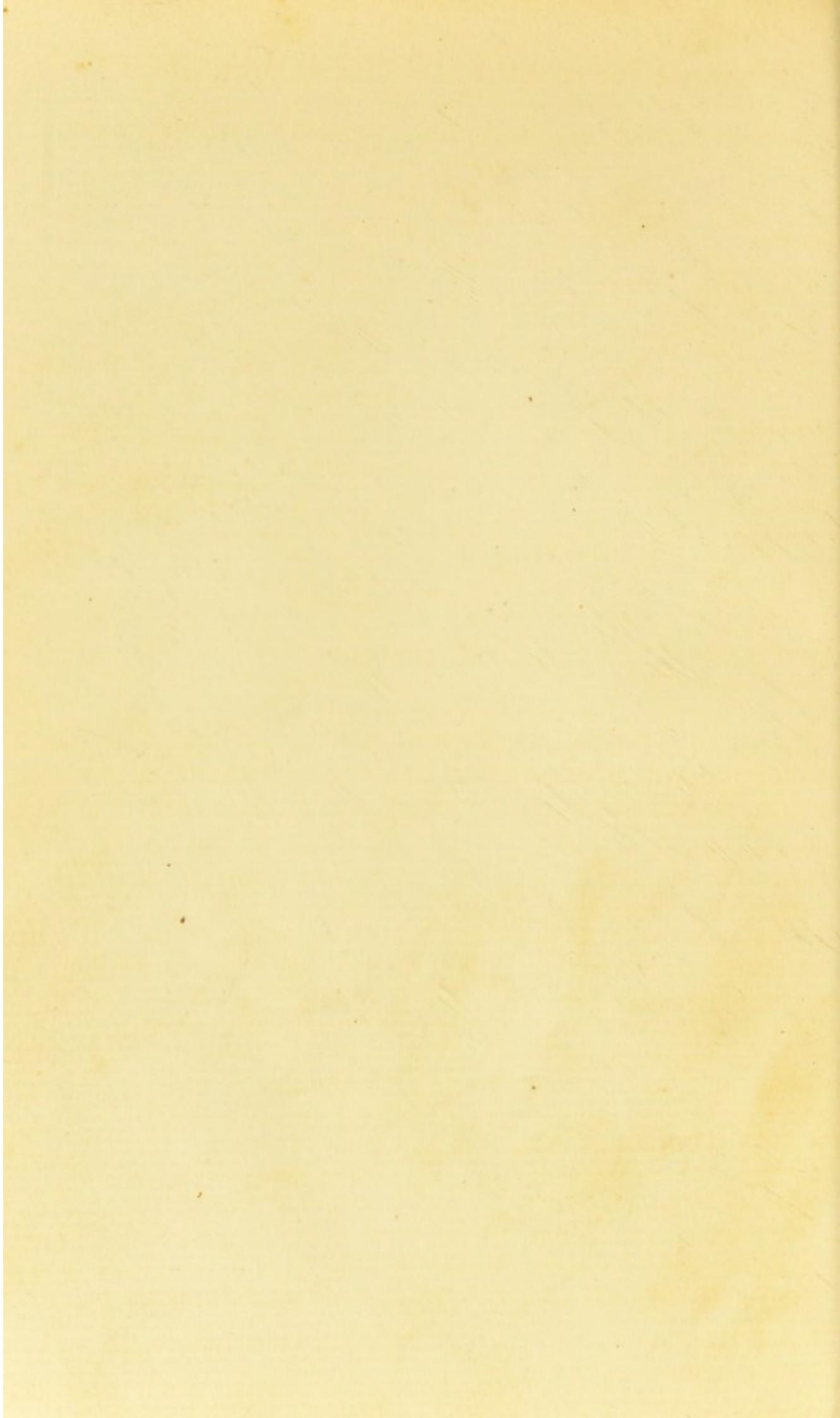
BRITISH GUIANA,

March, 1881.









ADDITIONS AND CORRECTIONS

TO

JENMAN'S HAND-LIST OF THE JAMAICA FERNS

FROM THE

JOURNAL OF BOTANY, No. 239, NOVEMBER, 1882.

ADDITIONS.

Cyathea—

- jamaicensis*, *Jenman*, n. sp., *Wilson*, 686
in Herb., Brit. Museum.
- conquisita*, *Jenman*, n. sp., *Wilson*, 134
in Herb., Brit. Museum.
- pendula*, *Jenman*, n. sp., *Wilson*, 16, in
Herb., Brit. Museum.

Hemitelia—

- Imrayana*, *Hook.*

Alsophila—

- sessilifolia*, *Jenman*, n. sp., *Wilson*, 520
Herb. Kew, Herb. British Museum 513
A. I. 520
- ferox*, *Presl.*

Trichomanes—

- macilentum*, *Hook.*

Asplenium—

- obtusifolium*, *L.* var.
expansum, *Willd.*
monticolum, *Jenman*, n. sp., Herb. Kew.

Nephrodium—

- incisum*, *Baker.*
tenebricum, *Jenman*, n. sp., Herb. Kew.

Polypodium—

- firmum*, *Klotzsch.*
Sherringii, *Baker*, n. sp., Herb. Kew.

Acrostichum—

- flaccidum*, *Fée.*
chartaceum, *Baker*, n. sp., Herb. Kew.
Huacsaro, *Ruiz.*
cubense, *Mett.*
Lindeni, *Bory.*

Osmunda—

- regalis*, *L.*

Anemia—

- filiformis*, *Presl.*

The following Jamaica specimens which have been ascribed in Herbaria and books to names in the first column, belong to those opposite in the second column; the first must therefore be dropped from Jenman's List.

Gleichenia revoluta, *H. B. K.*

Dicksonia adiantoides, *H. B. K.*

Hymenophyllum elegantulum, *V. D. B.*

Trichomanes lineolatum, *Hook.*

Adiantum Capillus Veneris, *L.*

Asplenium diminutum, *Baker.*

Aspidium serrulatum, *Mett.*

abreviatum, *Schrad.*

Nephrodium venustum, *J. Sm.*

aspleniodes, *Baker.*

Polypodium curvatum, *Swartz.*

Anemia mandiocana, *Raddi.*

Danæa stenophylla, *Kunze.*

G. Matthewsii, *Hook.*

D. cicutaria, *Swartz.*

H. sericeum, *Swartz.*

T. reptans, *Swartz.*

A. tenerum, *Swartz.*

A. Fadyeni, *Hook.*

Nephrodium amboinense, *Presl.*

N. amboinense, *Presl.*

N. Fendleri, *Hook.*

Polypodium aspleniodes, *Swartz.*

P. inæquale, *Fée.*

A. Phyllitidis, *Swartz.*

D. Moritziana, *Presl.*

Jamaica specimens of the following are not found in the Kew or British Museum Herbaria, and therefore very doubtfully belong to the Island.

Asplenium marinum, *L.*

Nephrodium limbatum, *Desv.*

brachyodon, *Hook.*

Polypodium jubæforme, *Kaulf.*

Psilotum complanatum, *Swartz.*

Adiatum pumilum, *Swartz.* Is probably

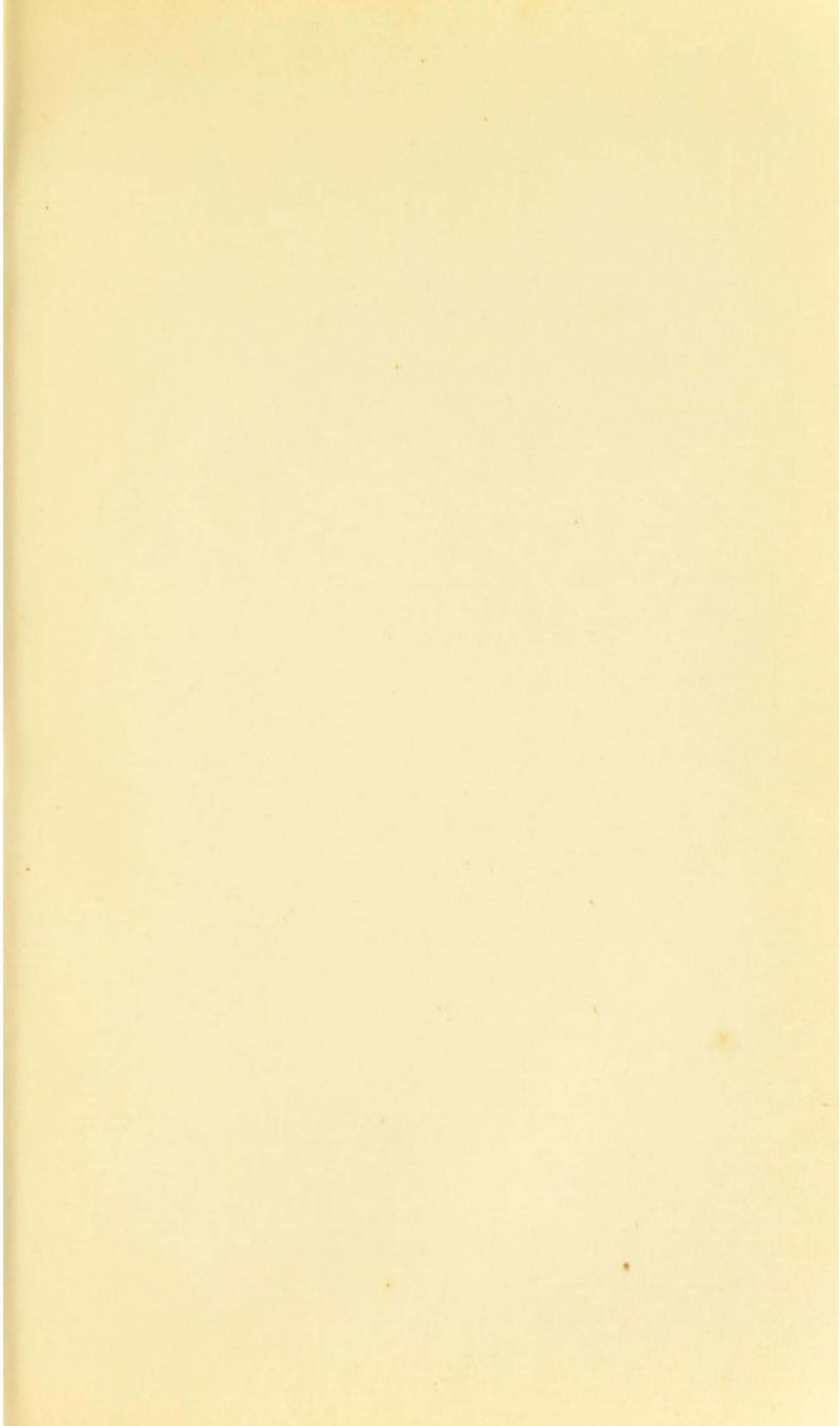
young. *A. cristatum*, *L.*

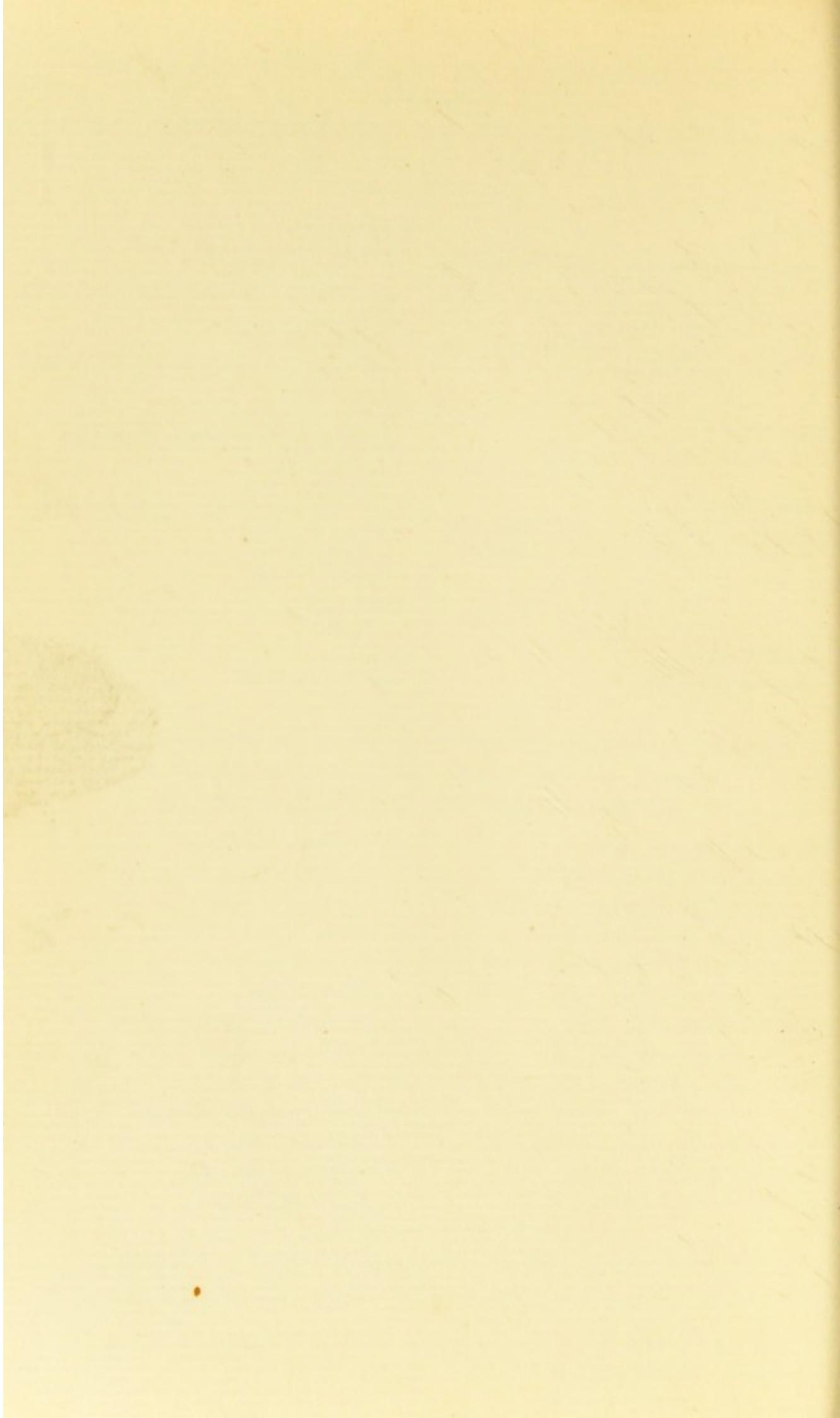
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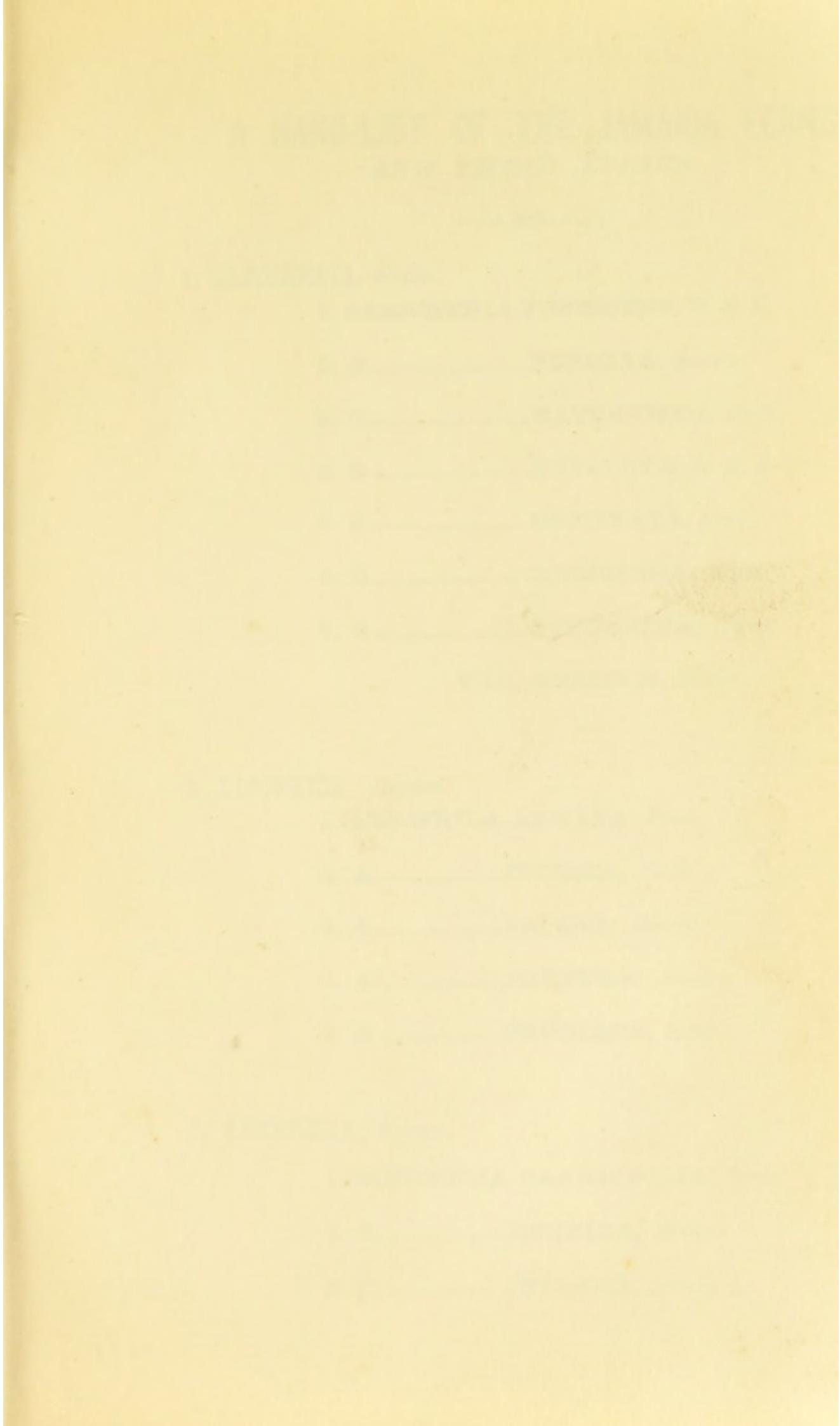
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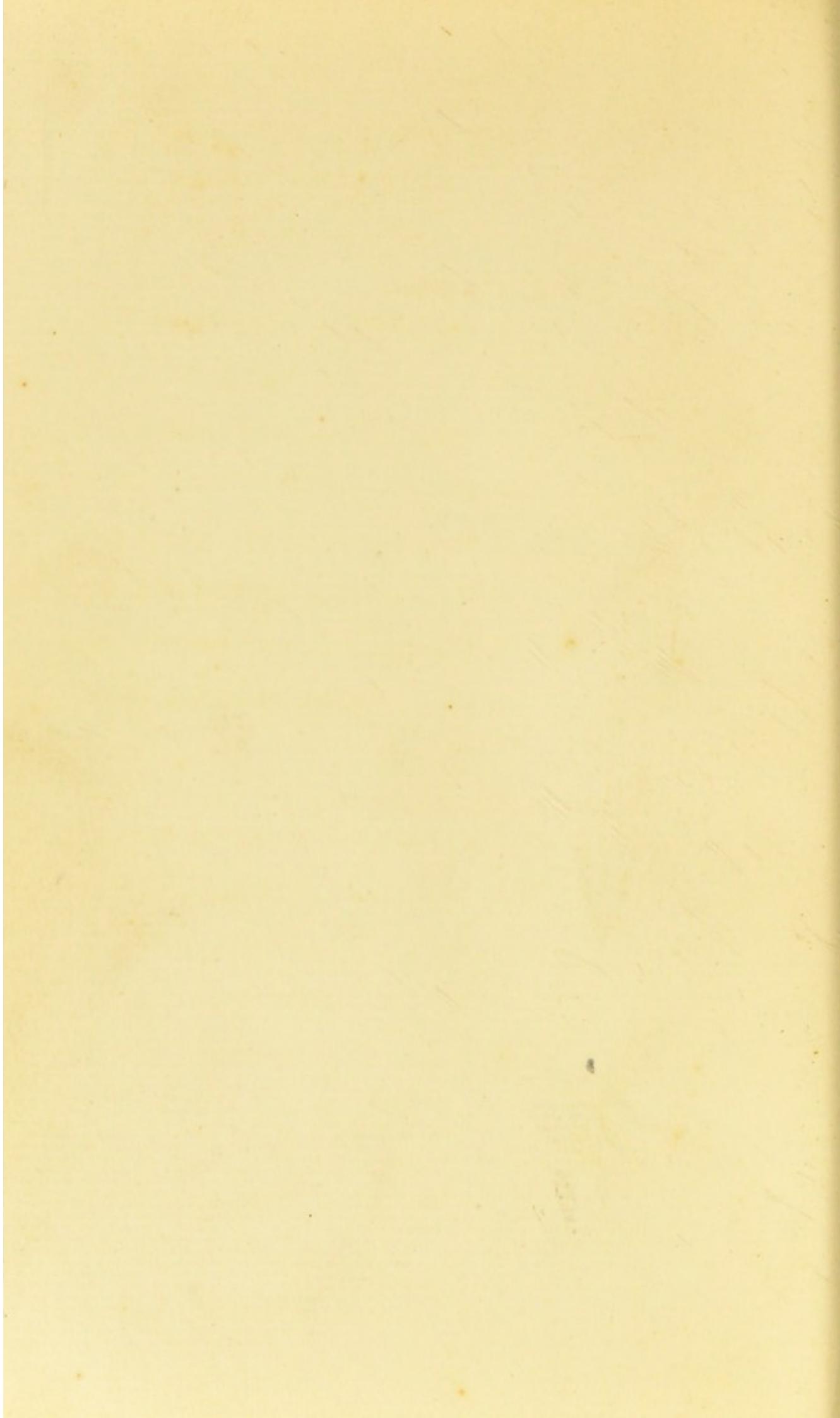
БЛОГІДА

— засновникъ









A HAND-LIST OF THE JAMAICA FERNS AND THEIR ALLIES.

1. GLEICHENIA, *Smith.*

1. **GLEICHENIA PUBESCENS**, *H. B. K.*
2. **G. FURCATA**, *Swartz.*
3. **G. MATTHEWSII**, *Hook.*
4. **G. REVOLUTA**, *H. B. K.* *
5. **G. PECTINATA**, *Presl.*
6. **G. DICHOTOMA**, *Willd.*
7. **G. LONGISSIMA**, *Blume.*

VAR. GRACILIS, *Jenman.*

2. ALSOPHILA, *Brown.*

1. **ALSOPHILA ARMATA**, *Presl.*
2. **A. INFESTA**, *Kunze.* *
3. **A. ASPERA**, *Brown.*
4. **A. PARVULA**, *Jenman.*
5. **A. PRUINATA**, *Kaulf.*

3. HEMITELIA, *Brown.*

1. **HEMITELIA GRANDIFOLIA**, *Spreng.* *
2. **H. HORRIDA**, *Brown.*
3. **H. WILSONI**, *Hooker.* *

ANIMALS AND THEIR
HABITS

BY W. H. GODDARD

WITH ILLUSTRATIONS BY THE AUTHOR

AND OTHERS

IN TWO VOLUMES

VOLUME FIRST

WITH ILLUSTRATIONS

BY THE AUTHOR

AND OTHERS

IN TWO VOLUMES

VOLUME SECOND

WITH ILLUSTRATIONS

BY THE AUTHOR

AND OTHERS

IN TWO VOLUMES

VOLUME THIRD

WITH ILLUSTRATIONS

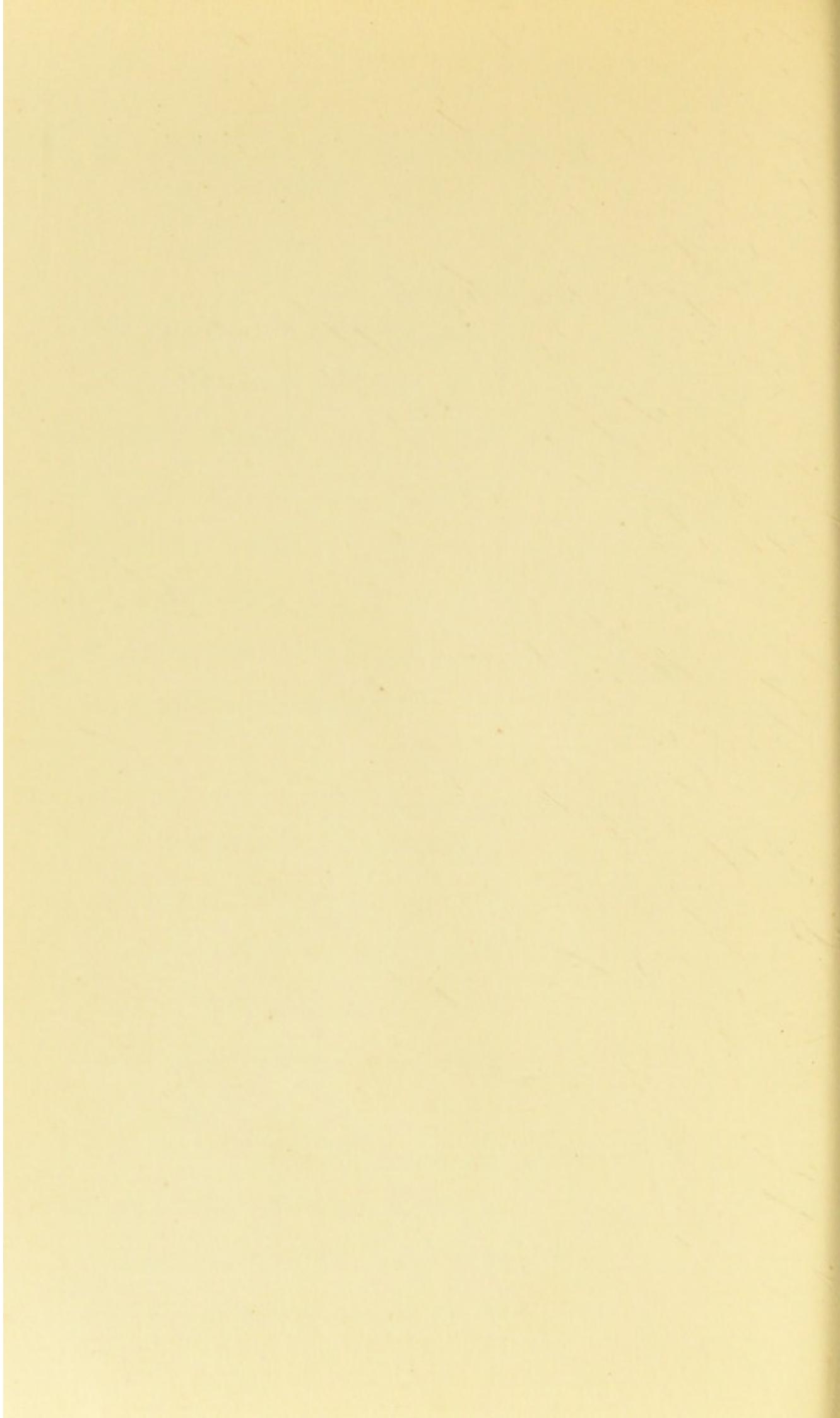
BY THE AUTHOR

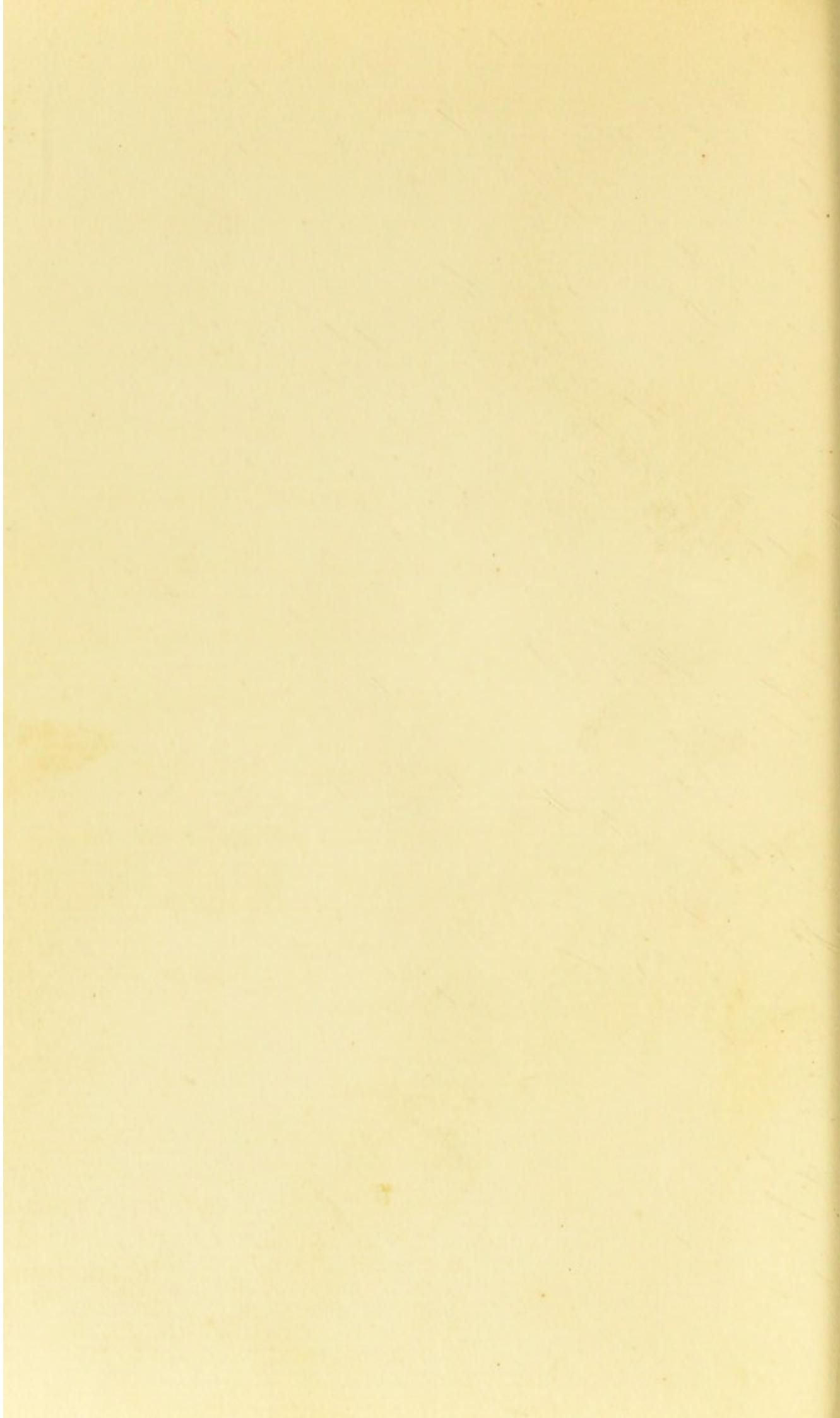
AND OTHERS

IN TWO VOLUMES

VOLUME FOURTH

WITH ILLUSTRATIONS





4. CYATHEA, *Smith.*1. CYATHEA NOCKII, *Jenman.*2. C _____ PUBESCENS, *Mett.*3. C _____ SERRA, *Willd.*4. C _____ ELEGANS, *Heward.*5. C _____ ARBOREA, *Smith.*VAR. CONCINNA, *Baker.*6. C _____ TUSSACII, *Desv.*7. C _____ MONSTRABILA, *Jenman.*8. C _____ FURFURACEA, *Baker.*9. C _____ SCHANSCHIN, *Martius.*10. C _____ DISSOLUTA, *Baker.*11. C _____ GRACILIS, *Griseb.*12. C _____ INSIGNIS, *Eaton.*5. TRICHOMANES, *Smith.*1. TRICHOMANES SPICATUM, *Hedw.*2. T _____ LINEOLATUM, *Hook.*3. T _____ REPTANS, *Swartz.*4. T _____ PUNCTATUM, *Poir.*

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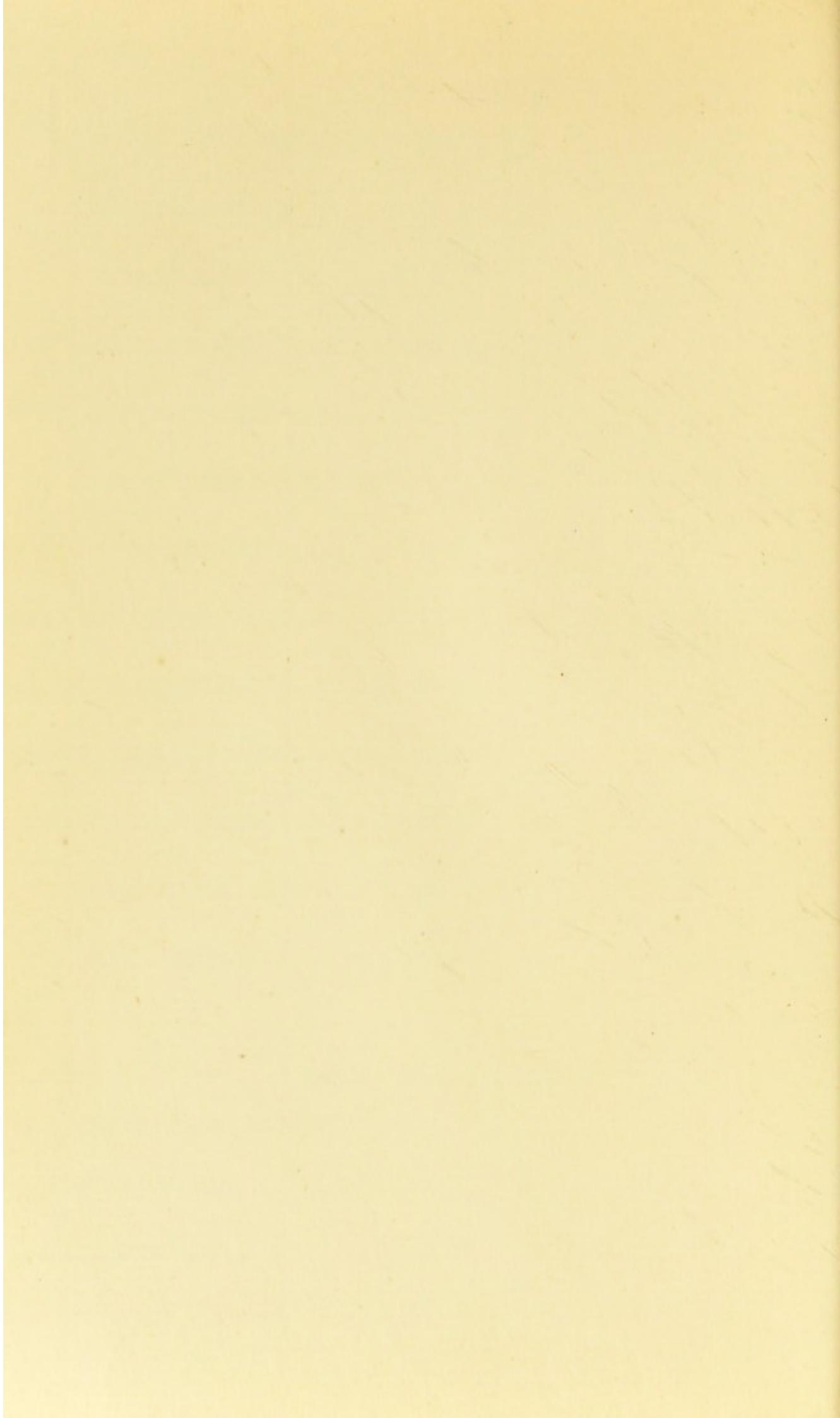
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W⁹⁹⁹



5. TRICHOMANES—(Continued.)

5. TRICHOMANES MEMBRANACEUM, Linn.

6. T SETIFERUM, Baker.

7. T APODUM, Hook & Grev.

8. T MUSCOIDES, Swartz.

9. T PUSILLUM, Swartz.

10. T SINUOSUM, Rich.

11. T PINNATIFIDUM, V. D. B. *

12. T BANCROFTII, Hook.

13. T KAULFUSSII, Hook & Grev.

14. T CRISPUM, Linn.

15. T PINNATUM, Hedw. *

16. T CRINITUM, Swartz.

17. T ALATUM, Swartz.

VAR. RADICATULUM, Jenman.

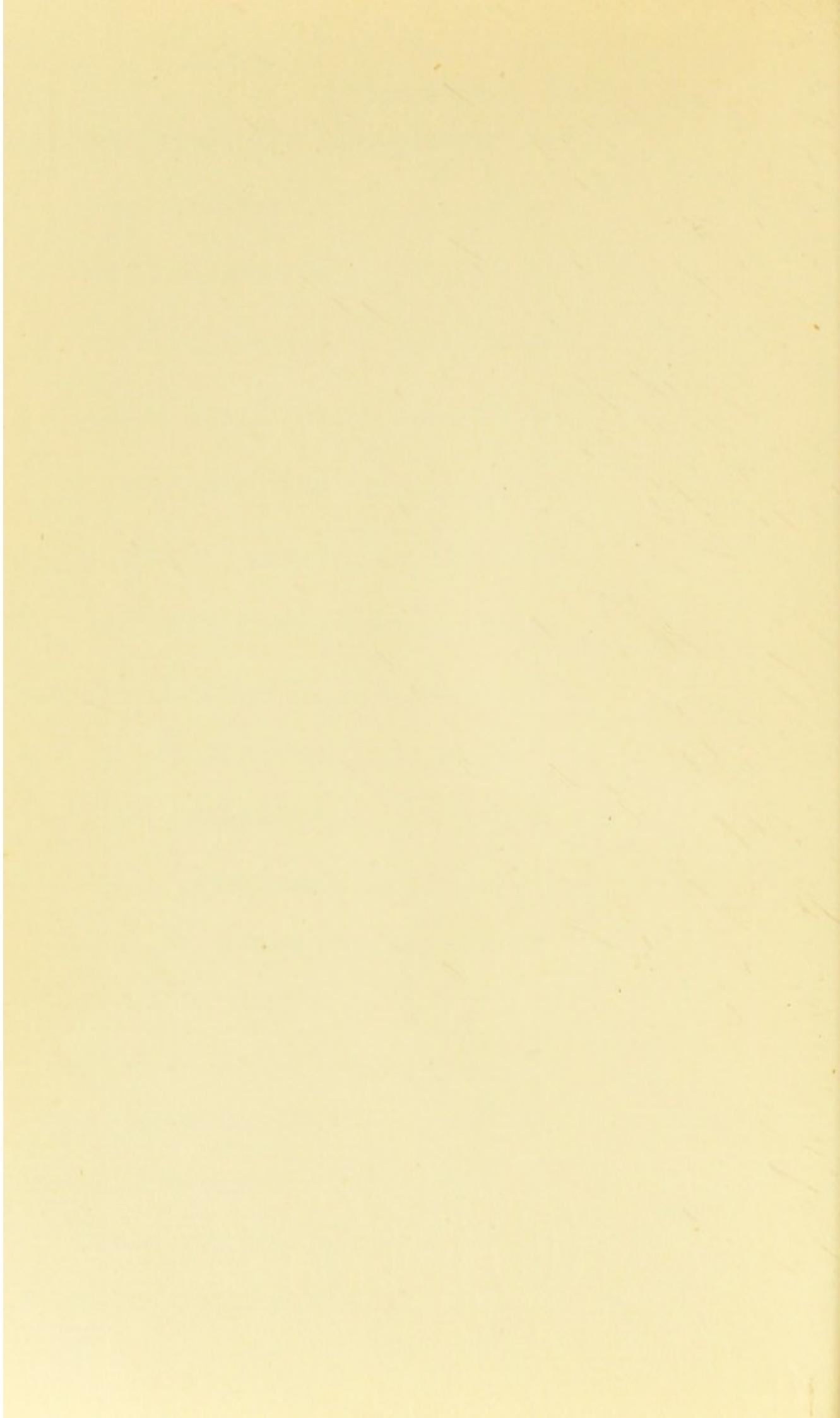
18. T KRAUSII, Hooker & Grev.

19. T PYXIDIFERUM, Linn.

VAR. T. OLIVACEUM, Kunze.

20. T RADICANS, Swartz.

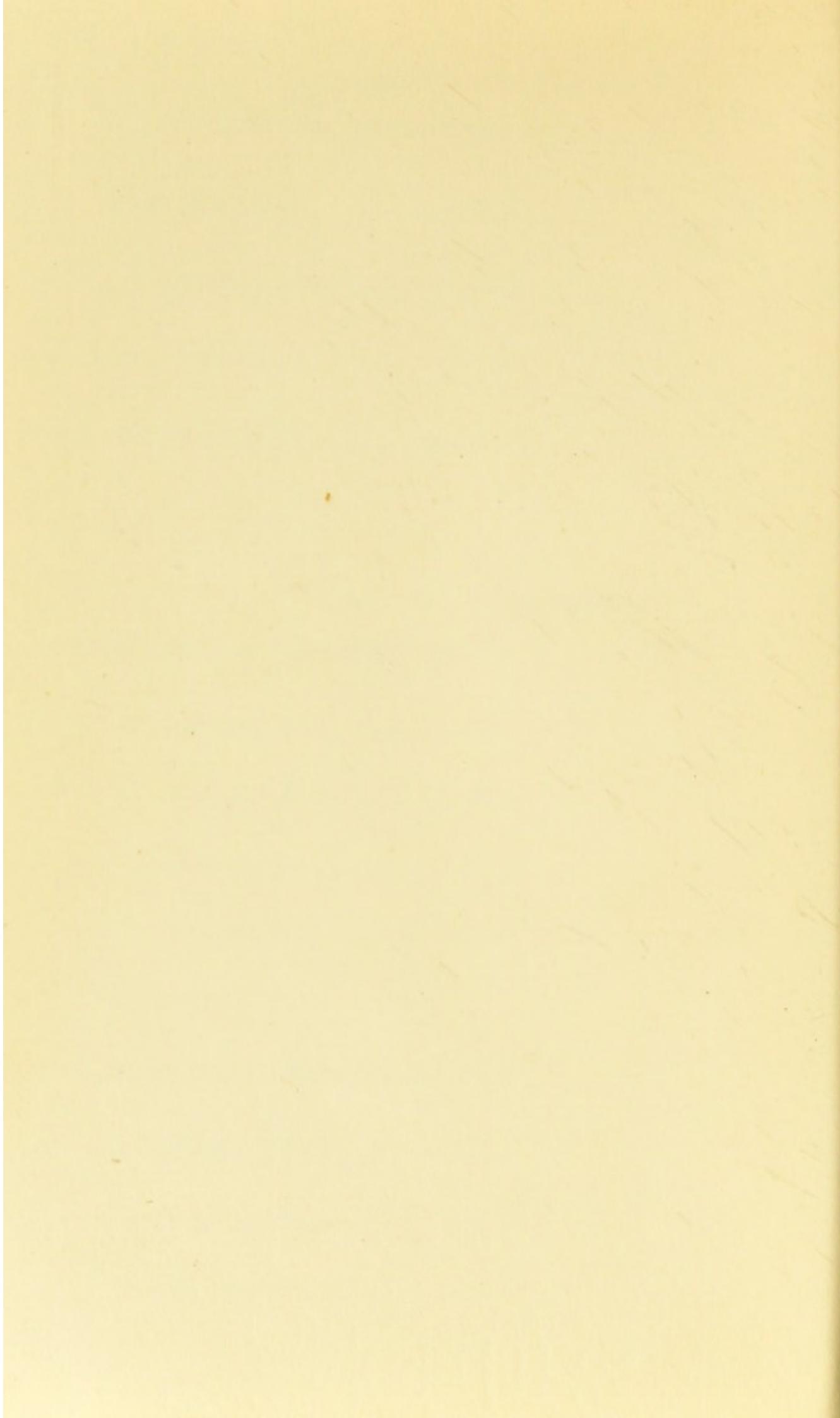
VAR. T. LUSCHNATIANUM, Kungz.

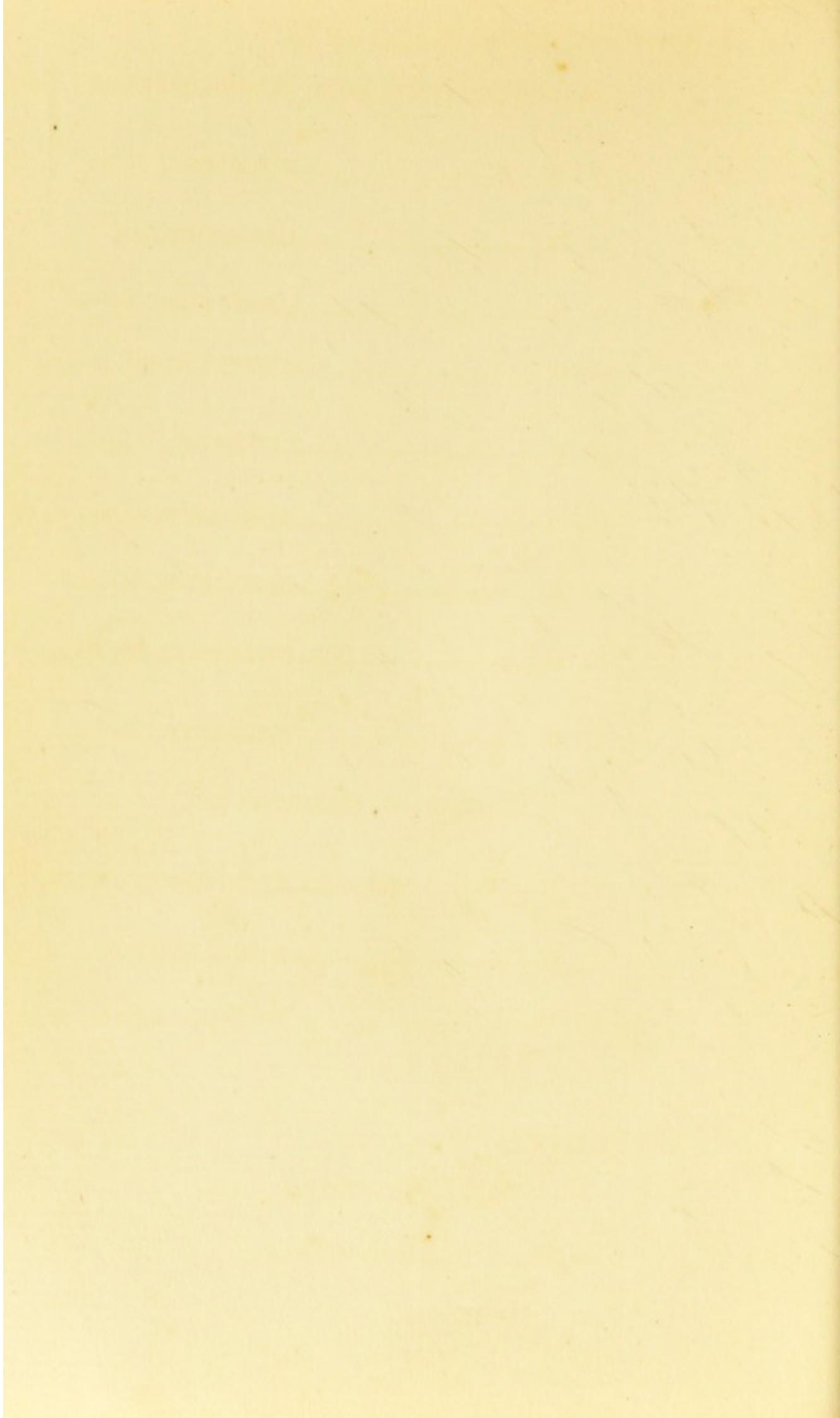


5. TRICHOMANES—(Continued.)

21 TRICHOMANES LUCENS, *Swartz.*22. T _____ RIGIDUM, *Swartz.*23. T _____ SCANDENS, *Linn.*24. T _____ TENERUM, *Spreng.*25. T _____ TRICHOIDEUM, *Swartz.*6. HYMENOPHYLLUM, *Linn.*1. HYMENOPHYLLUM ASPLENIOIDES, *Linn.*2. H _____ ABRUPTUM, *Hook.*3. H _____ RARUM, *R. Br.*4. H _____ L'HERMINIERI, *Mett?*5. H _____ POLYANTHOS, *Swartz.*VAR. PROTRUSUM, *Hook.*6. H _____ SPHÆROCARPUM, *V. D. B.*7. H _____ UNDULATUM, *Smith.*8. H _____ AXILLARE, *Swartz.*9. H _____ CRISPUM, *H. B. K.*

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223000 224000 225000 226000 227000 228000 229000





6. HYMENOPHYLLUM—(Continued.)

10. HYMENOPHYLLUM TUNBRIDGENSE, Smith.

11. H _____ FUCOIDES, Swartz.

12. H _____ LANATUM, Fee.

13. H _____ HIRSUTUM, Swartz.

14. H _____ ANTILLENSE, Jenman.

15. H _____ LINEARE, Swartz.

16. H _____ ELEGANTULUM, V. D. B.*

17. H _____ SERICEUM, Swartz.

18. H _____ CATHERINÆ, Hook.

19. H _____ CILIATUM, Swartz.

VAR. H. GRATUM, Fee.

20. H _____ ELEGANTISSIMUM, Fee.

21. H _____ HIRTELLUM, Swartz.

22. H _____ MICROCARPUM, Desv.

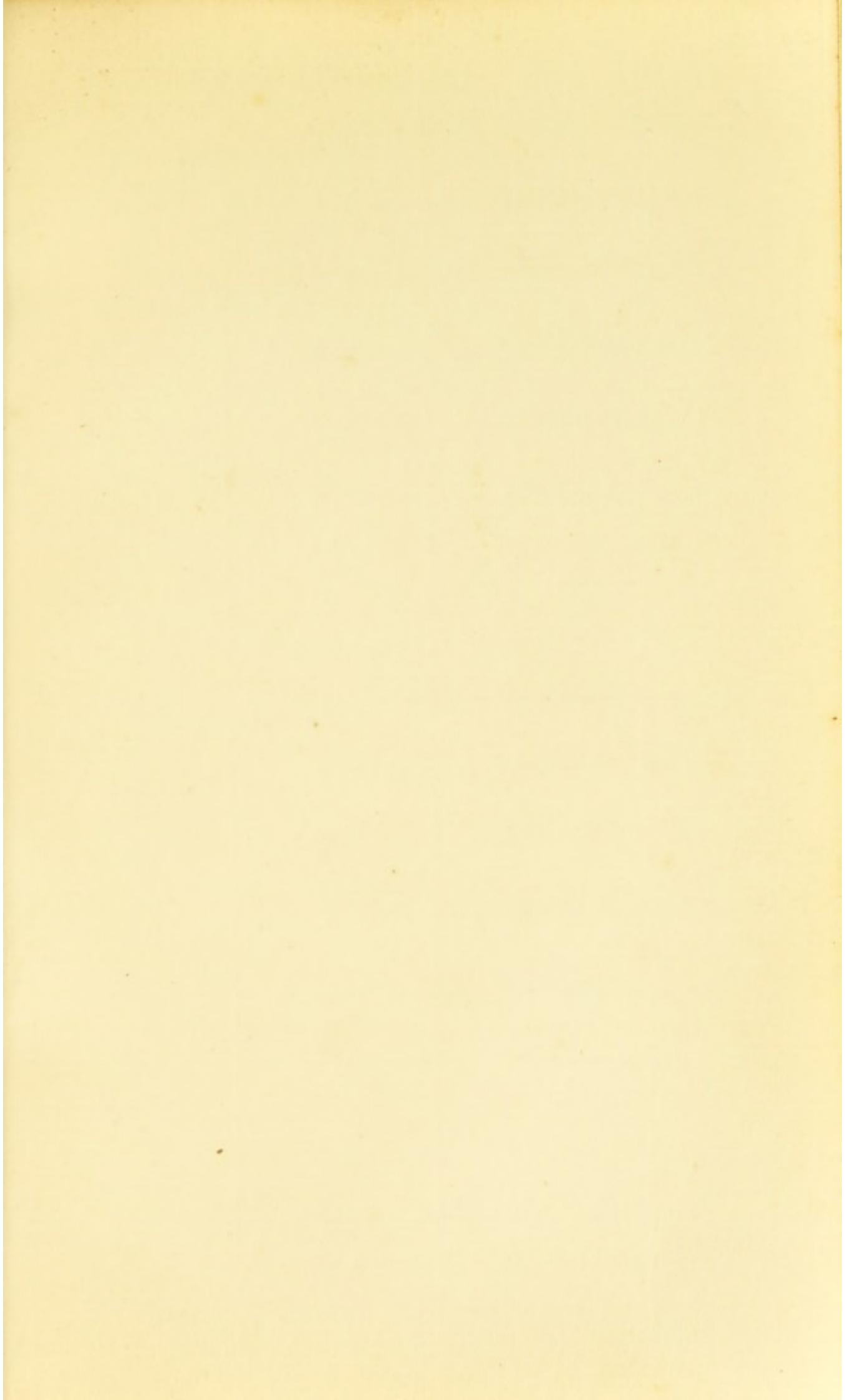
7. DICKSONIA, L'Herit.

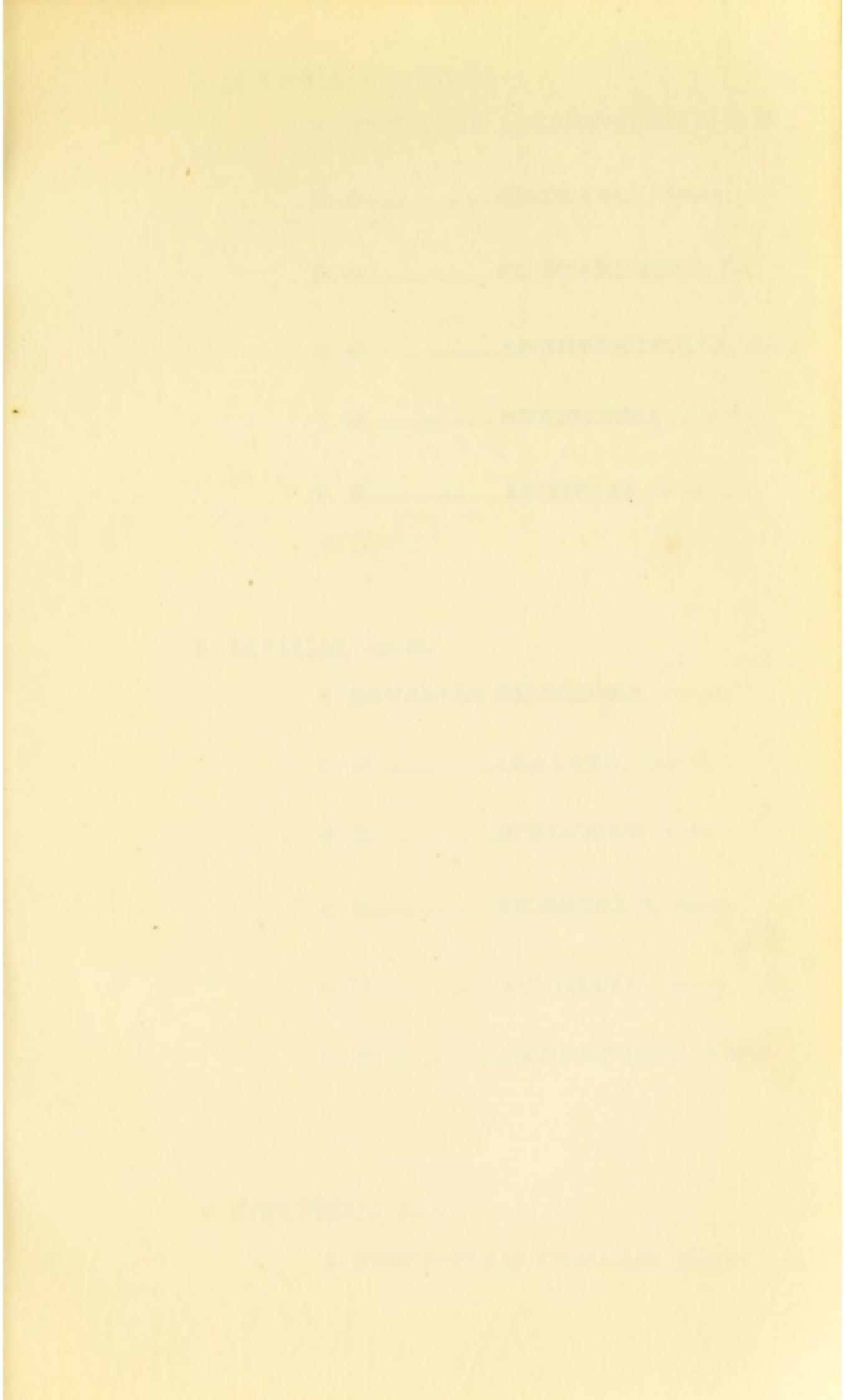
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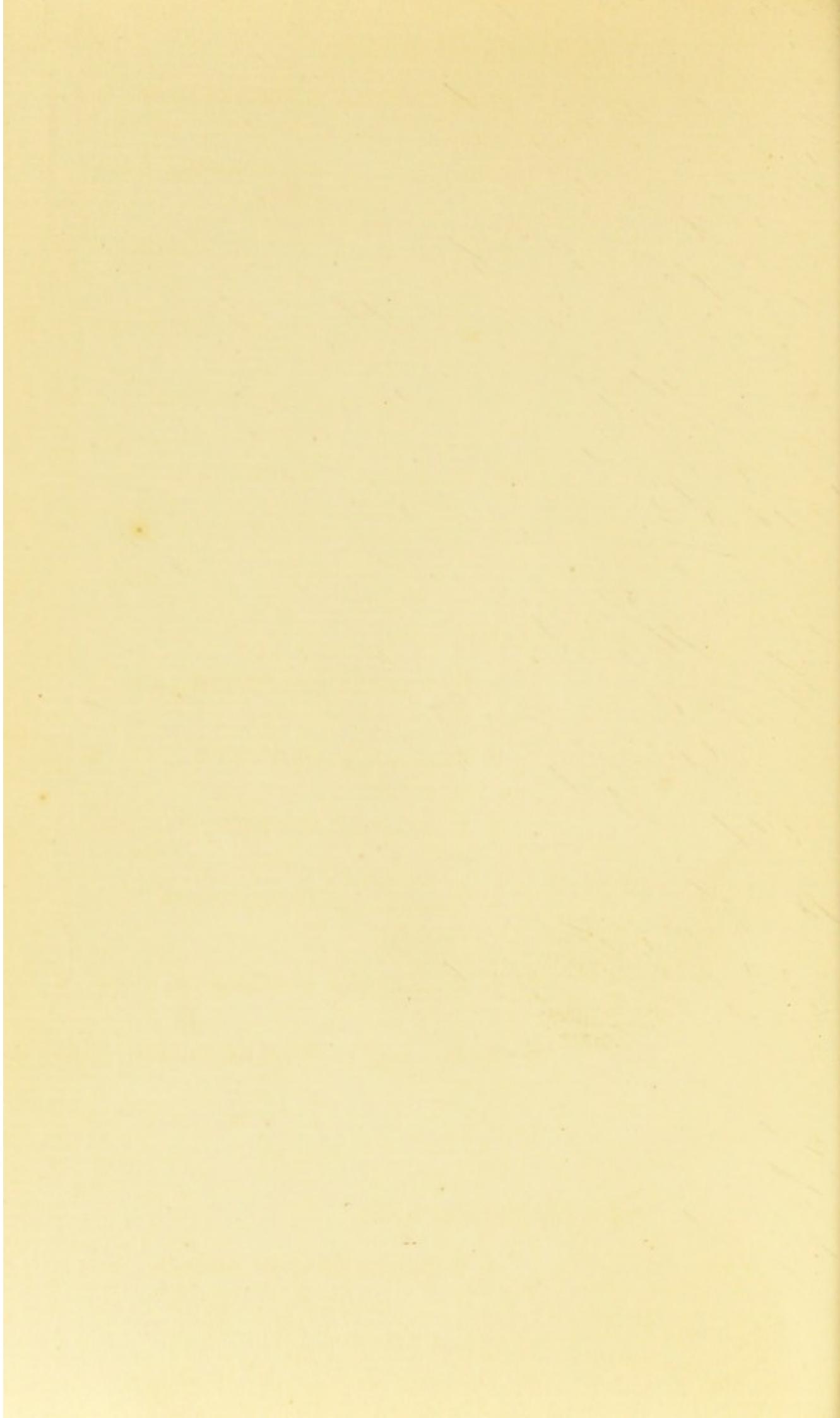
2. D _____ CONIFOLIA, Hook.

(continued) — READING LIST

A. 1. *ANTHROPOLOGY* — by various authors
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 a. 11. *INTERCULTURAL APPROACHES* — by various authors
 a. 12. *ANTHROPOLOGICAL METHODS* — by various authors







7. DICKSONIA—(Continued.)

3. DICKSONIA ADIANTOIDES, H. B. K. *

4. D CICUTARIA, Swartz.

5. D CICUTARIOIDES, Fée.

6. D ANTHRISCIFOLIA, Kaulf.

7. D RUBIGINOSA, Kaulf.

8. D APIIFOLIA, Hook. *

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1. DAVALLIA SACCOLOMA, Spreng.

2. D CLAVATA, Swartz.

3. D SPELUNCAE, Baker.

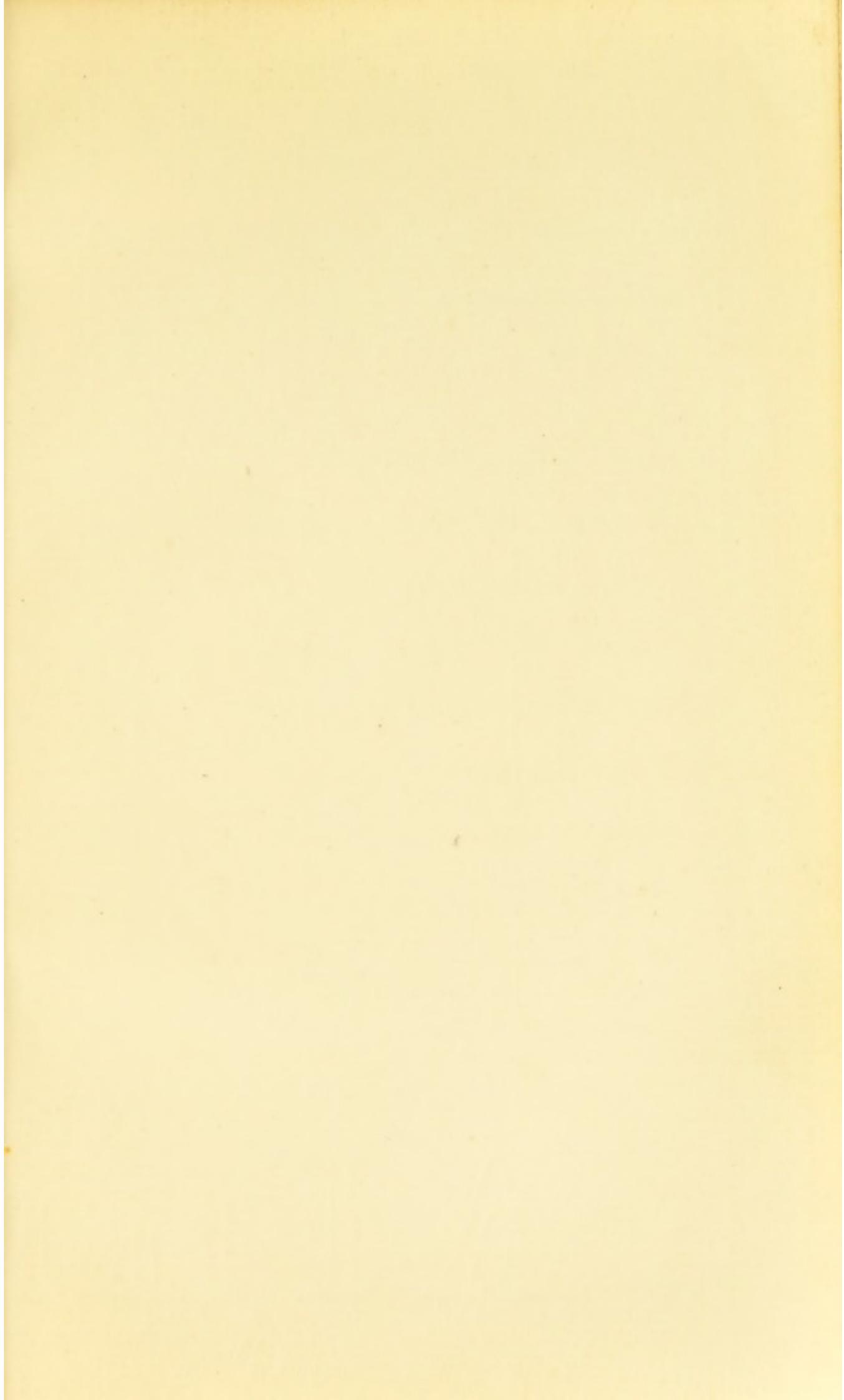
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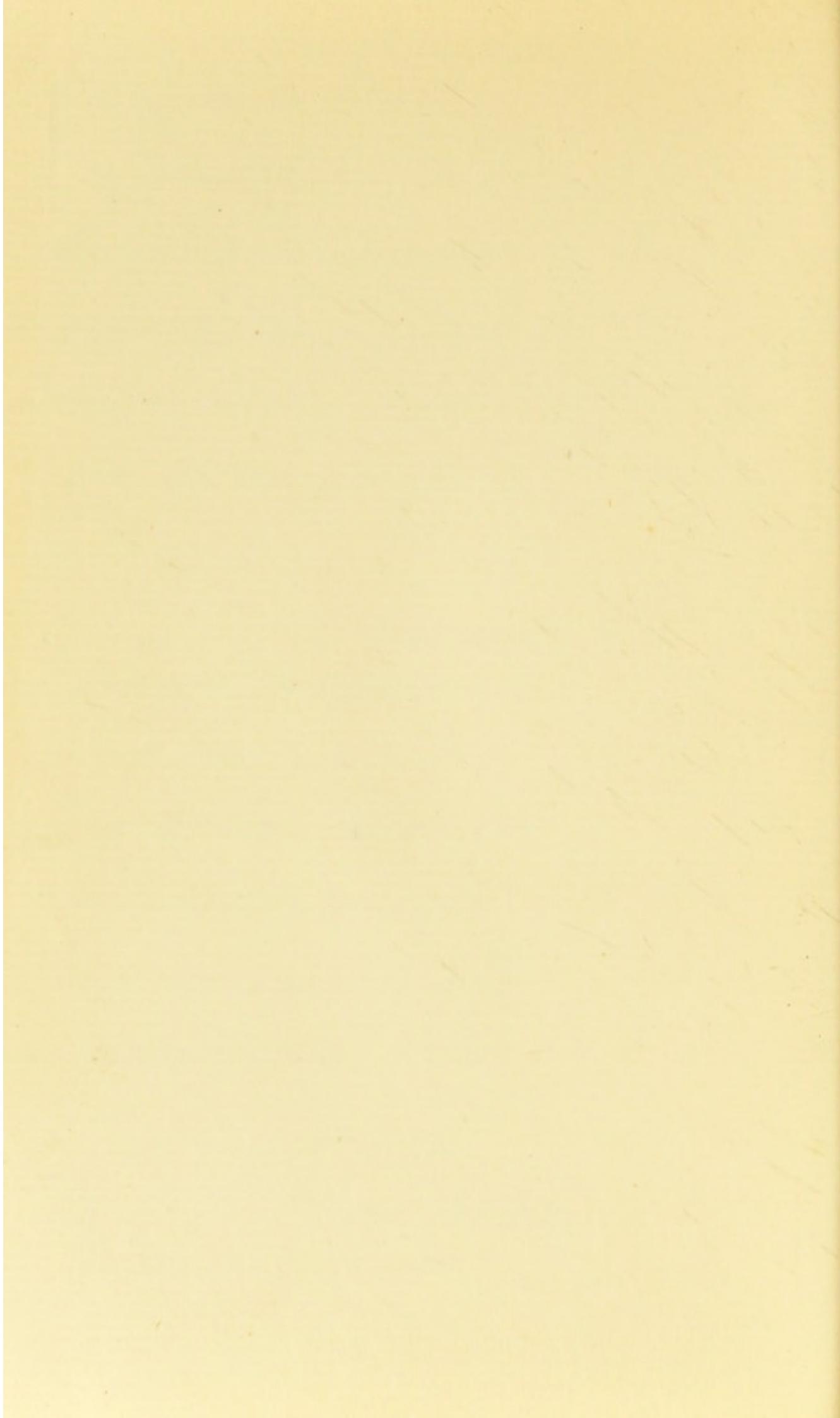
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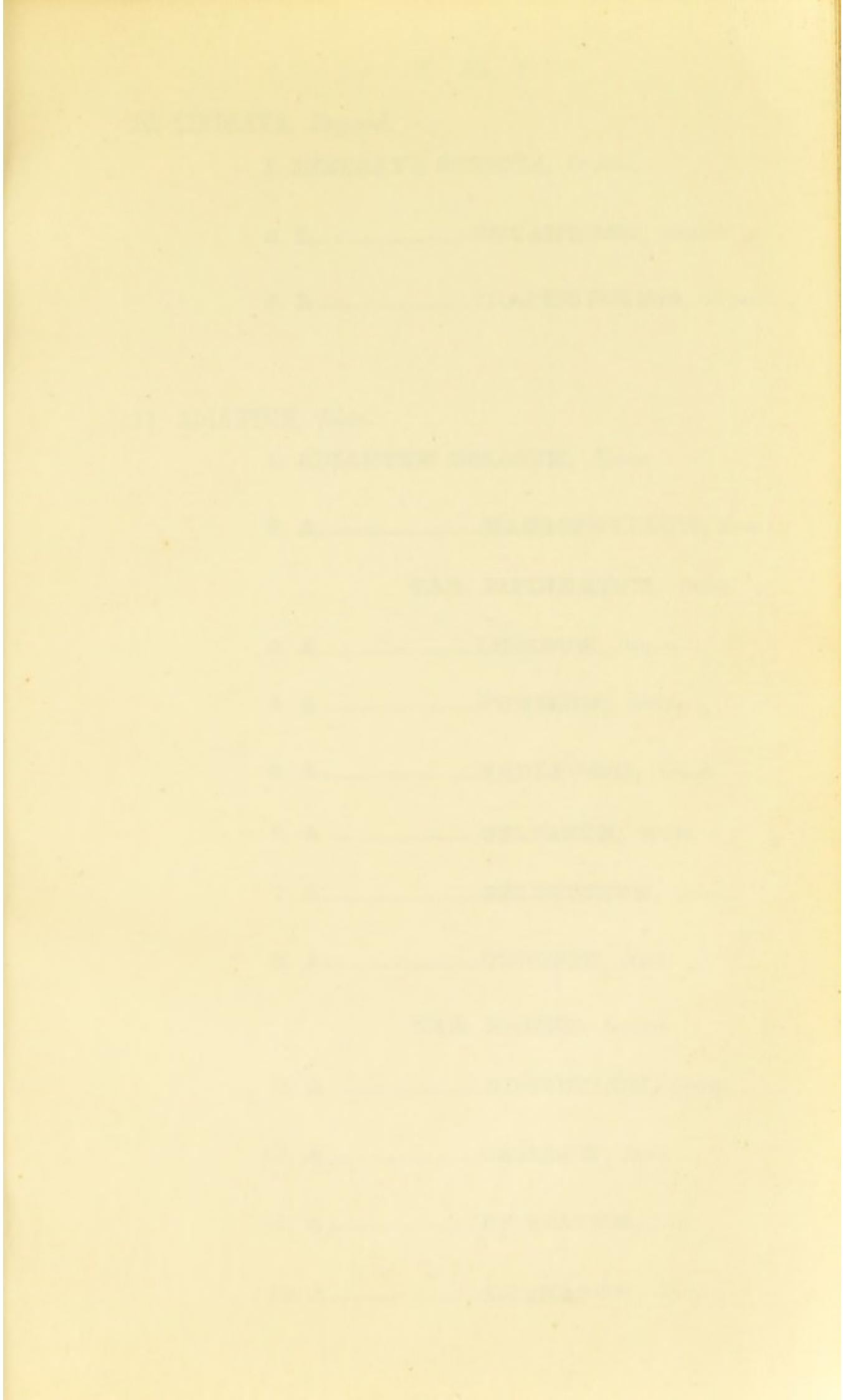
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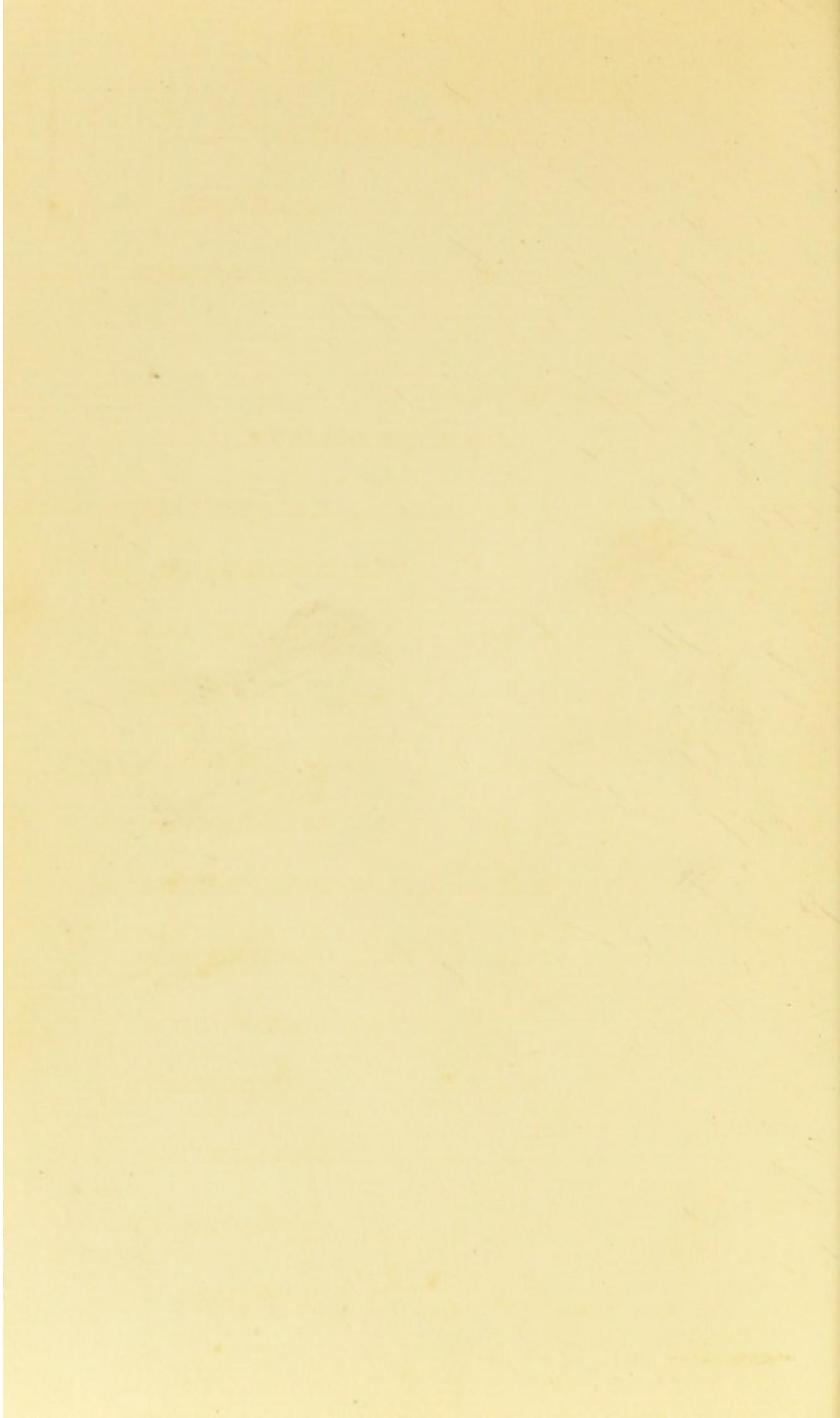
9. CYSTOPTERIS, Bernh.

1. CYSTOPTERIS FRAGILIS, Bernh.









10. LINDSAYA, *Dryand.*1. LINDSAYA STRICTA, *Dryand.*2. L_____ GUYANENSIS, *Dryand.* *3. L_____ TRAPEZIFORMIS, *Dryand.* *11. ADIANTUM, *Linn.*1. ADIANTUM DOLOSUM, *Kunze.*2. A_____ MACROPHYLLUM, *Swartz.*VAR. BIPINNATUM, *Baker.*3. A_____ LUCIDUM, *Swartz.* *4. A_____ PUMILUM, *Swartz.* *5. A_____ KAULFUSSII, *Kunze.*6. A_____ OBLIQUUM, *Willd.*7. A_____ DELTOIDEUM, *Swartz.*8. A_____ CUBENSE, *Hook.*VAR. NANUM, *Jenman.*9. A_____ HISPIDULUM, *Swartz.*10. A_____ OBTUSUM, *Desv.*11. A_____ CRISTATUM, *Linn.*12. A_____ CRENATUM, *Willd.* *

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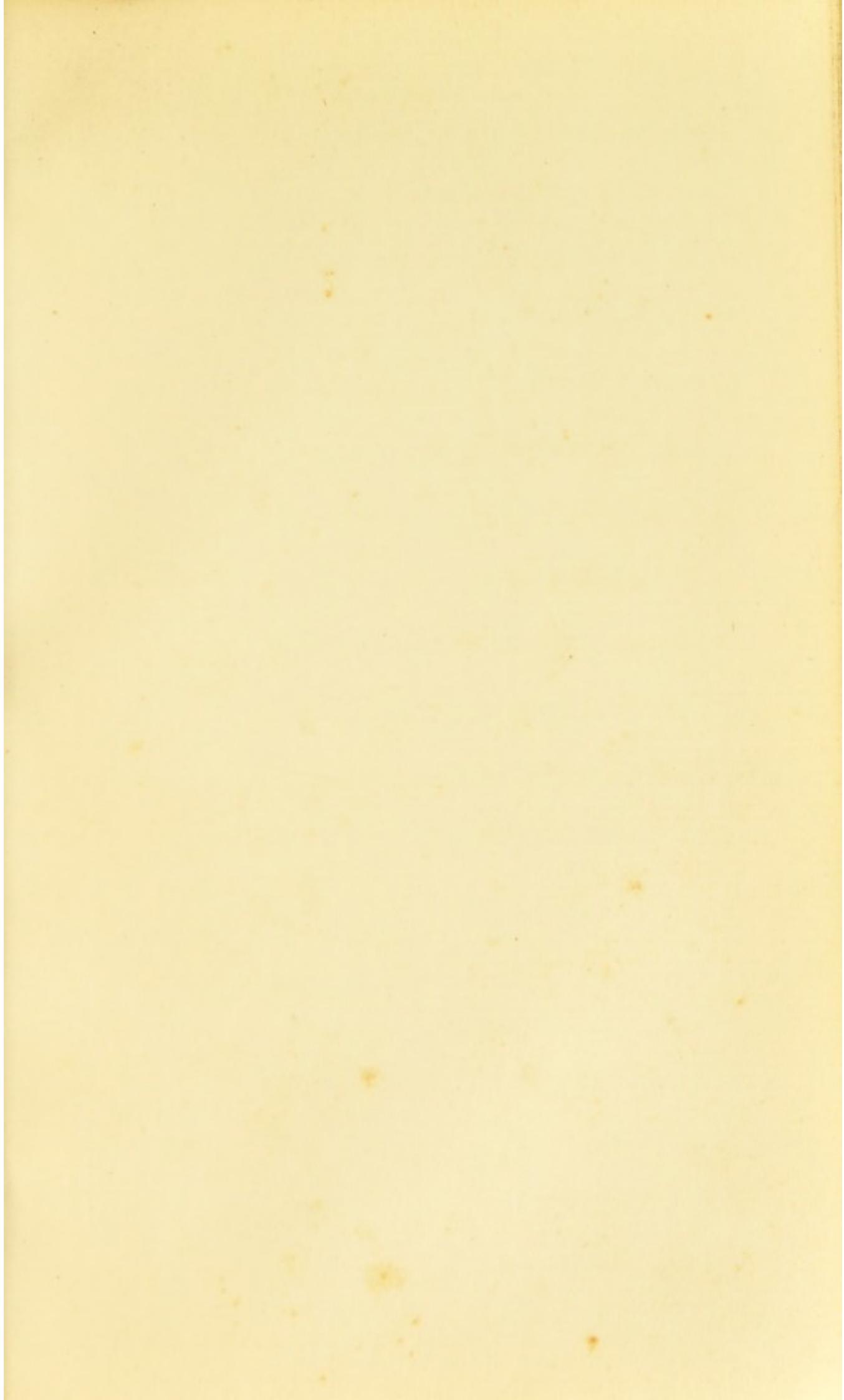
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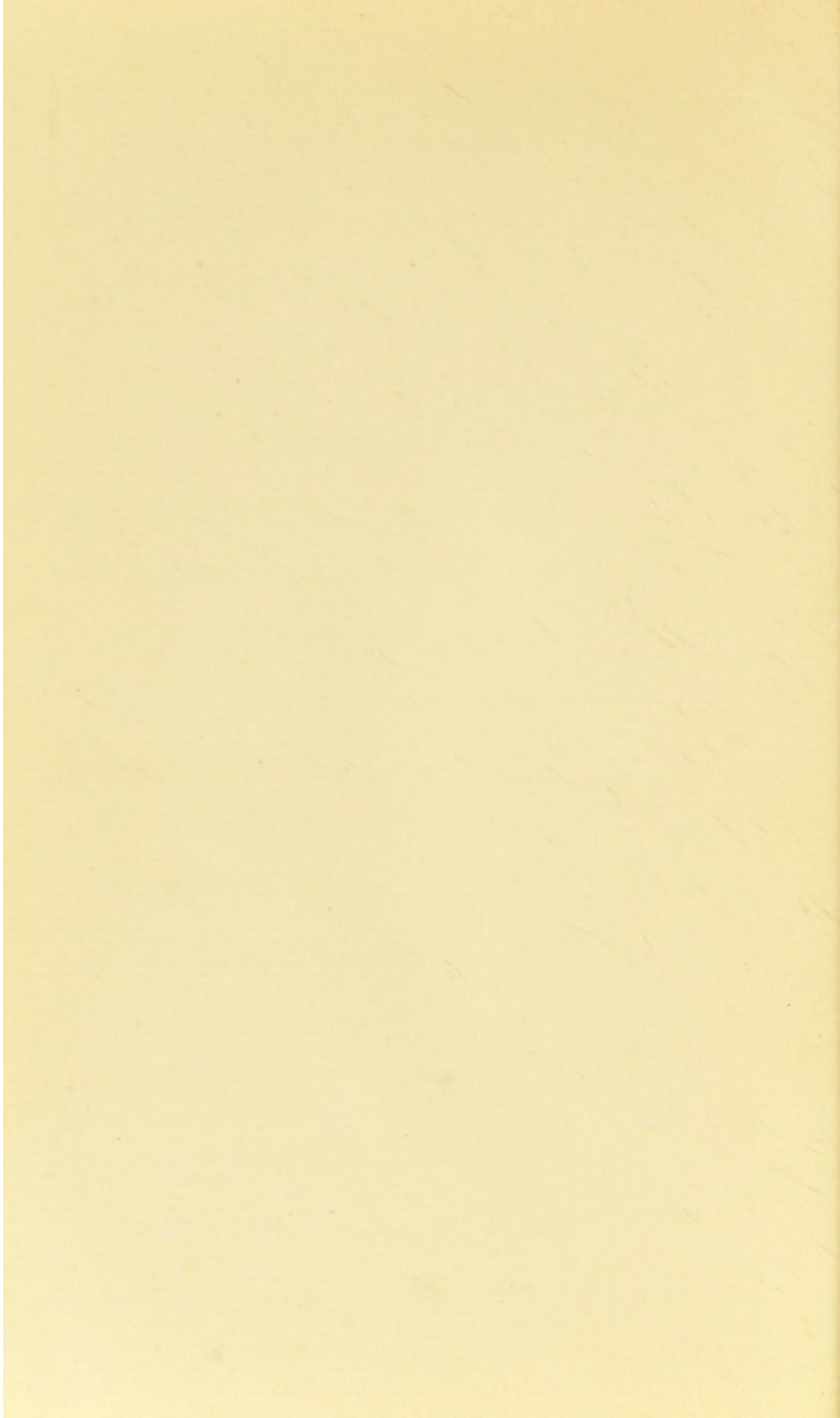
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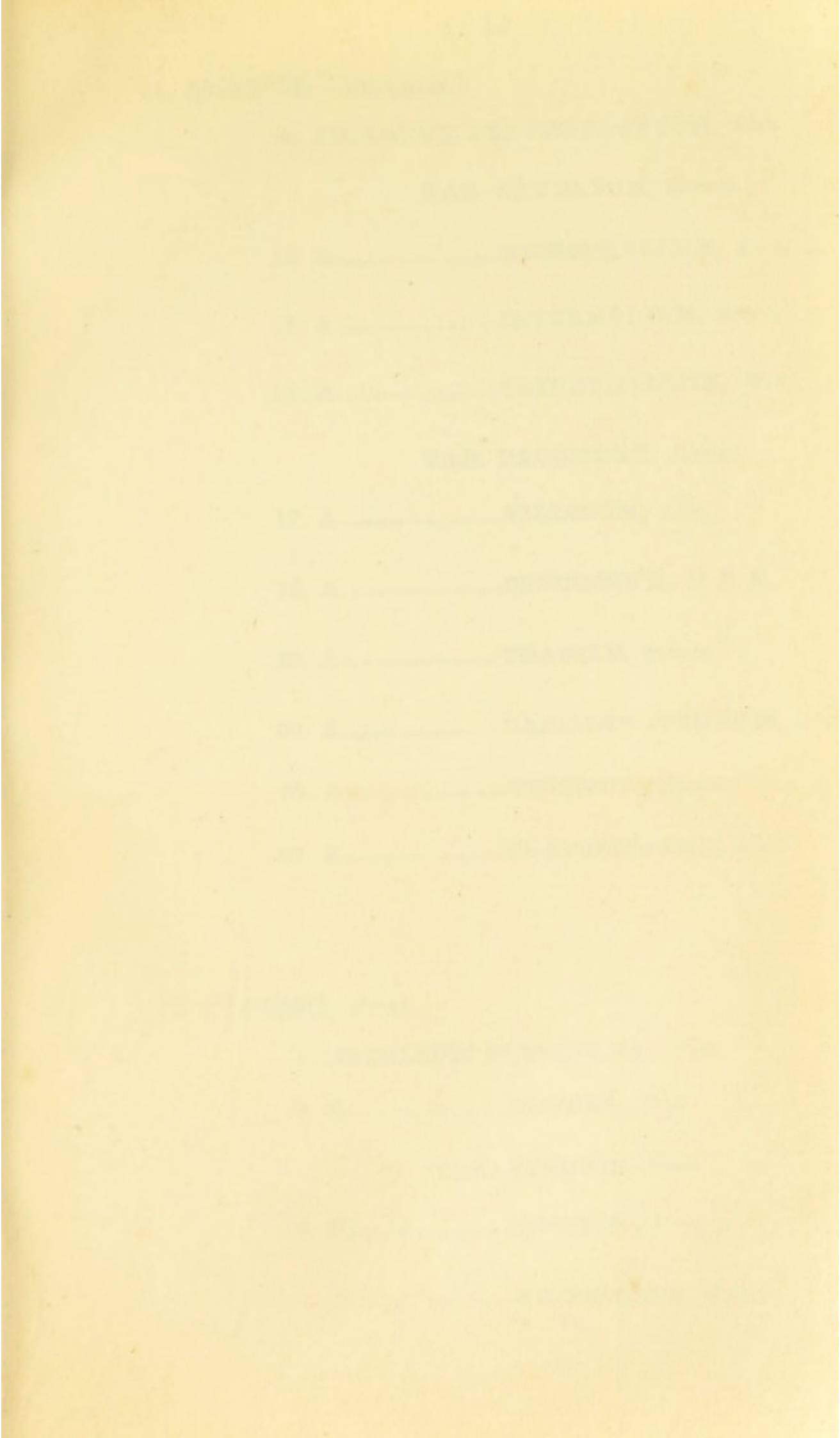
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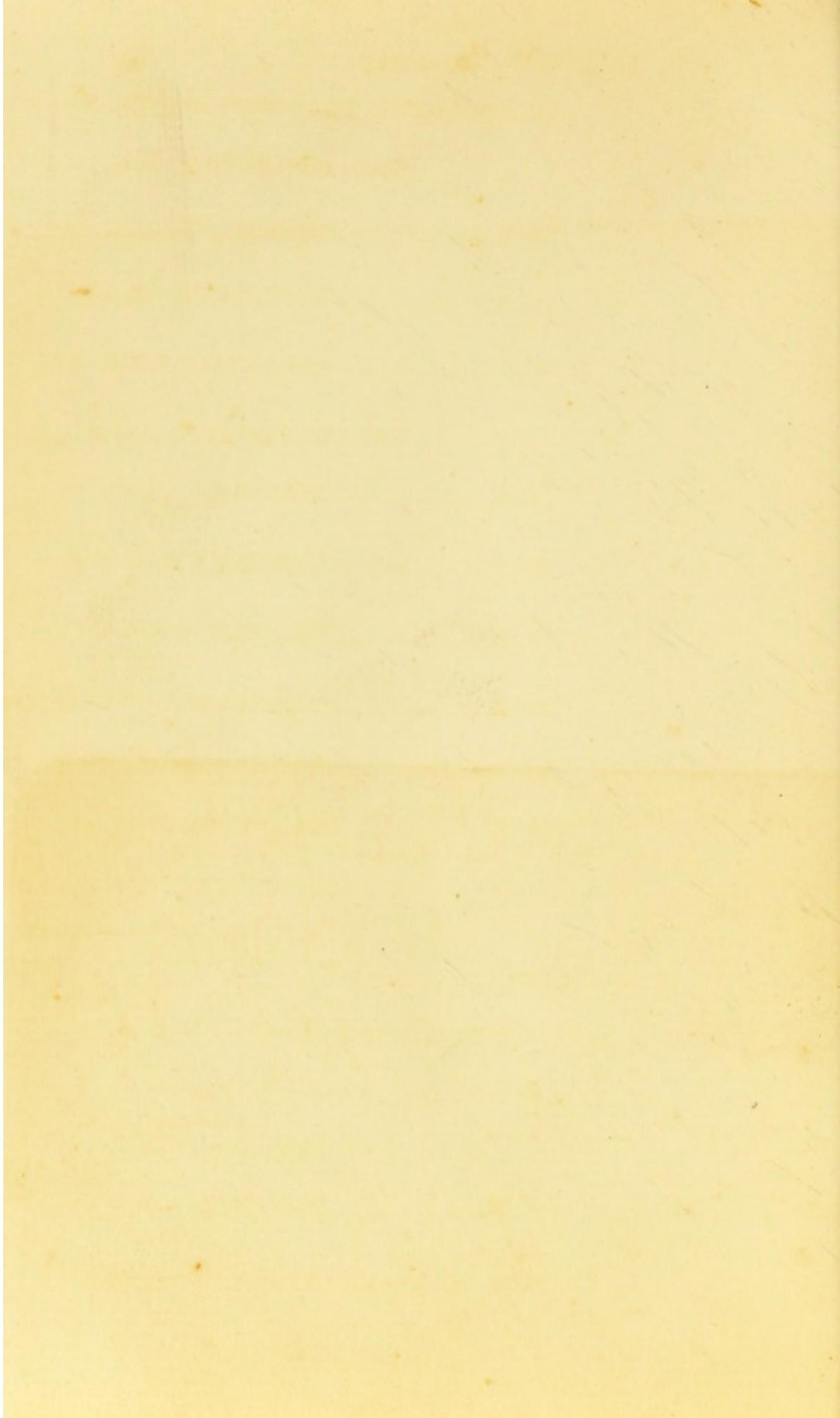
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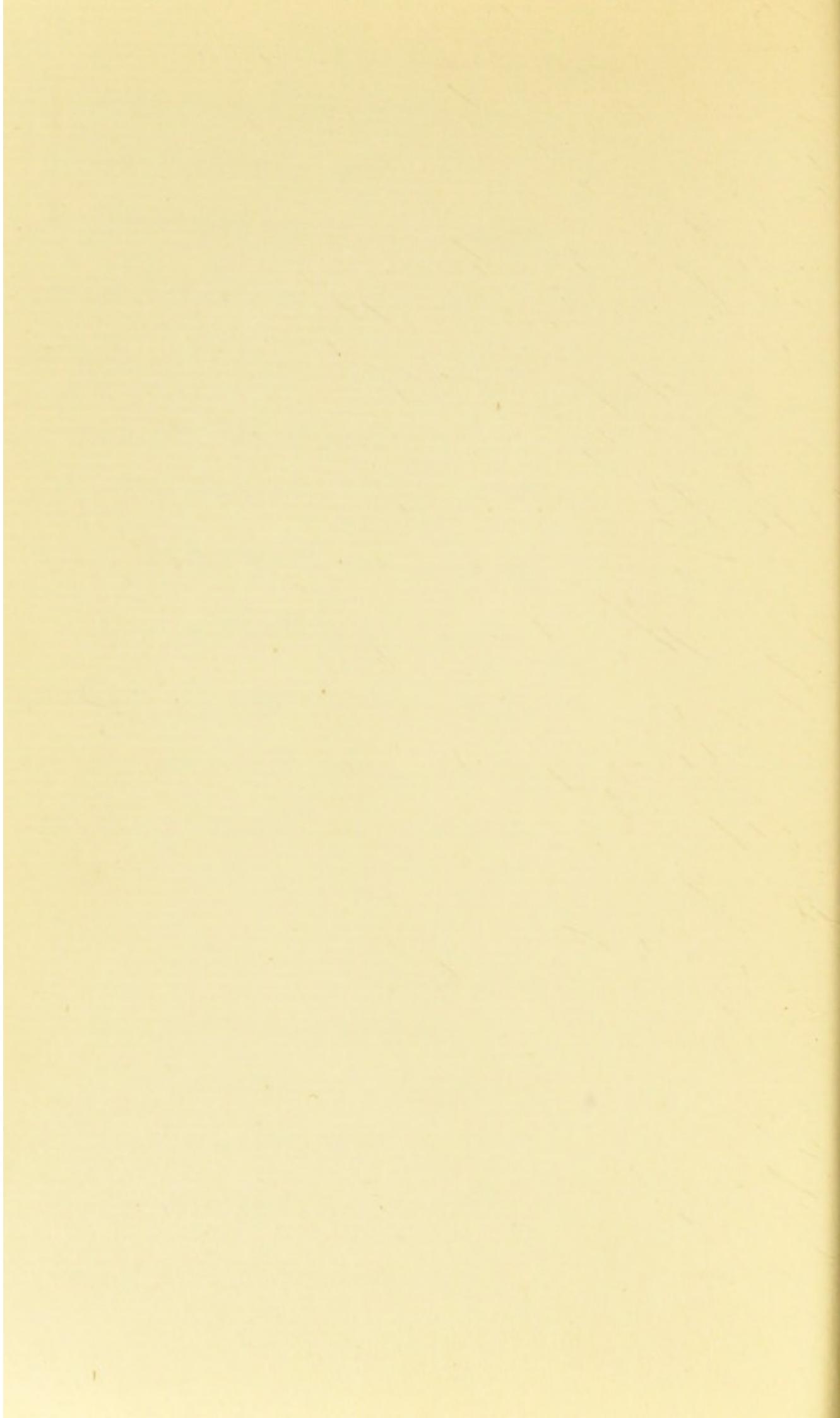
13. ADIANTUM PULVERULENTUM, *Linn.*VAR. CAUDATUM, *Jenman.*14. A _____ MICROPHYLLUM, *Kaulf.* *15. A _____ INTERMEDIUM, *Swartz.*16. A _____ TETRAPHYLLUM, *Willd.*VAR. PAUCIJUGA, *Jenman.*17. A _____ VILLOSUM, *Linn.*18. A _____ CONCINNUM, *H. B. K.*19. A _____ FRAGILE, *Swartz.*20. A _____ CAPILLUS-VENERIS, *Linn.*21. A _____ TENERUM, *Swartz.*22. A _____ TRAPEZIFORME, *Linn.*12. HYPOLEPIS, *Bernh.*1. HYPOLEPIS PURDIEANA, *Hook.*2. H _____ REPENS, *Presl.*VAR. INERMIS, *Hook.*3. H _____ HOSTILIS, *Presl.* *4. H _____ NIGRESCENS, *Hook.*

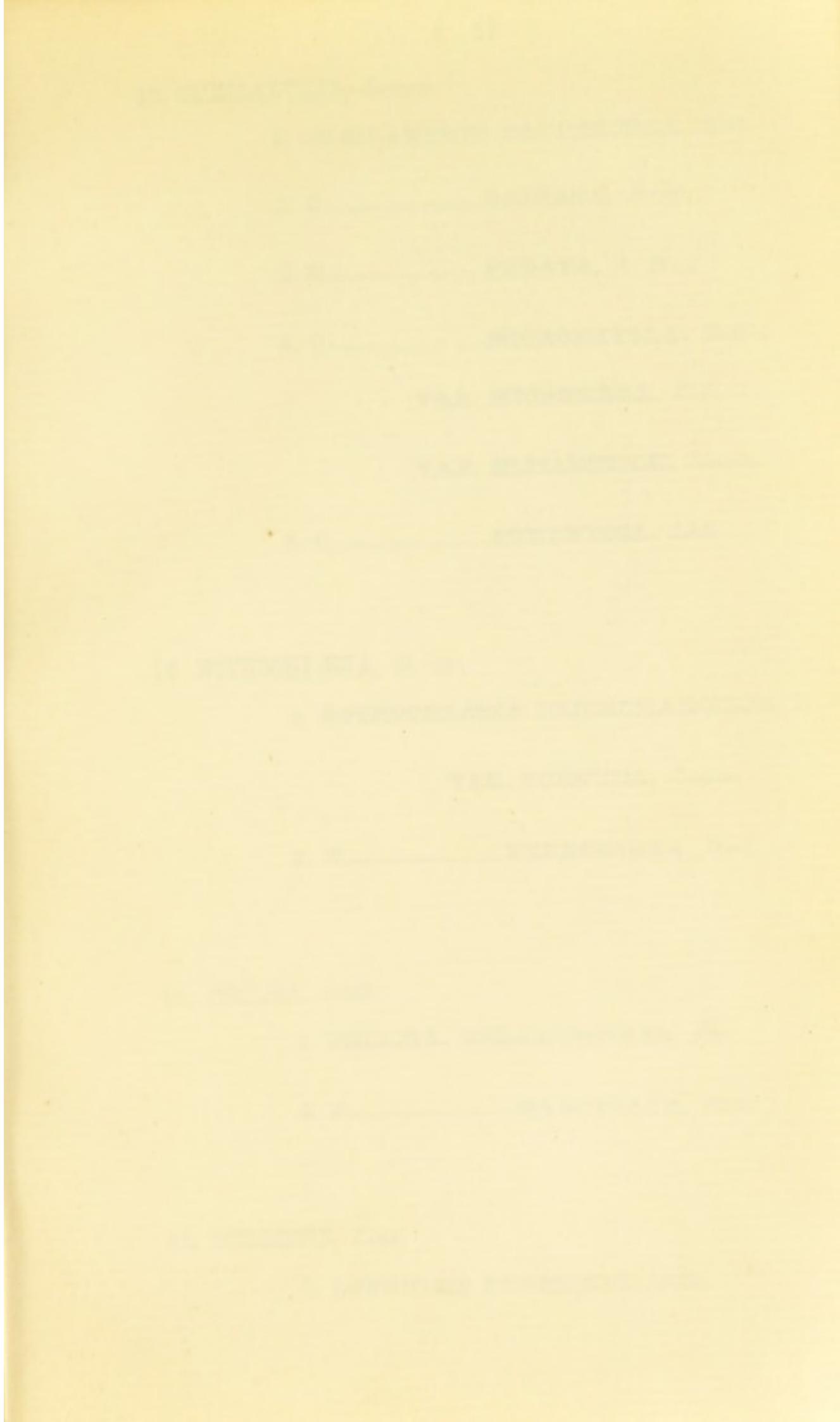
the Government has a strong interest in

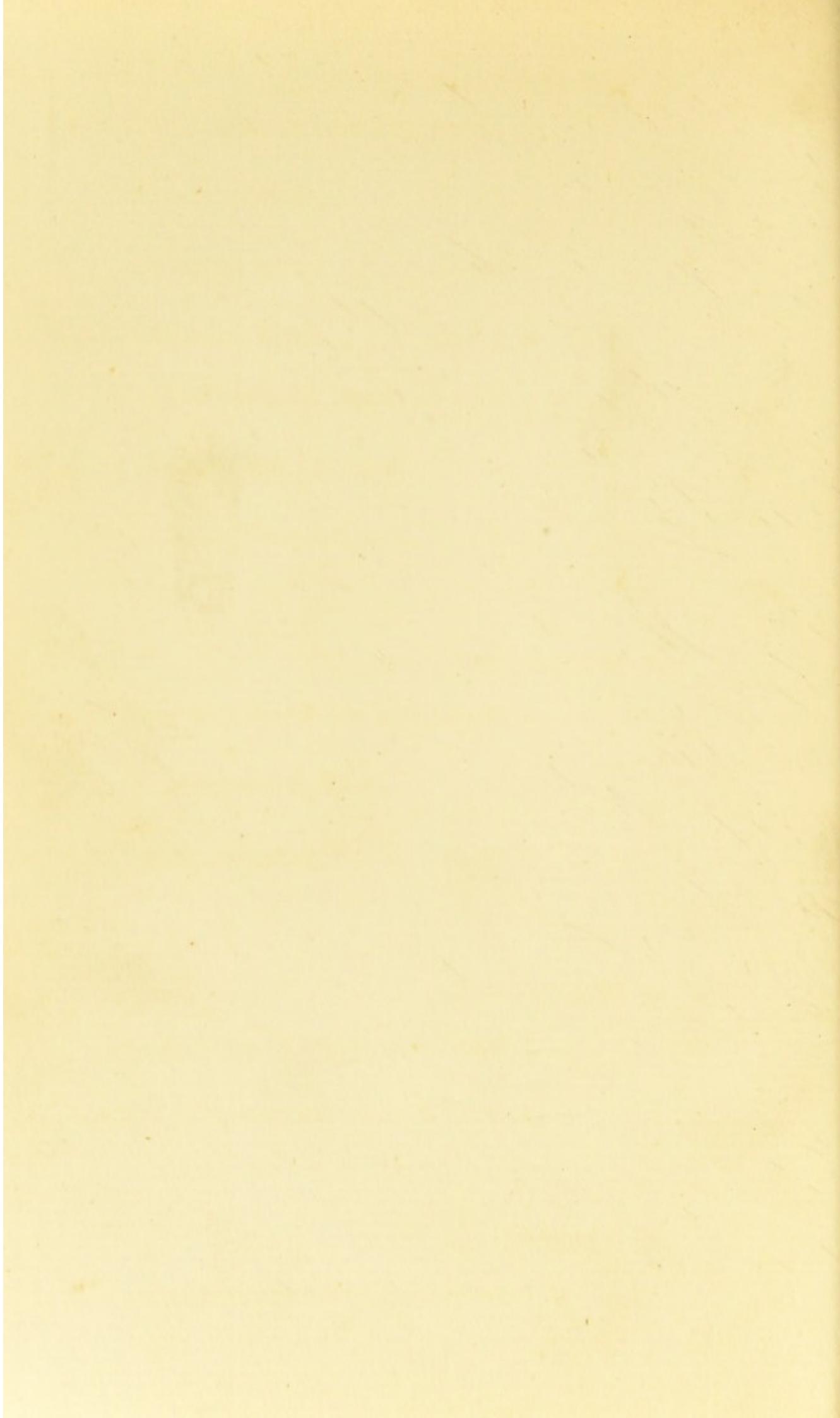
such a settlement, stay

the Government is the best

such a settlement, stay



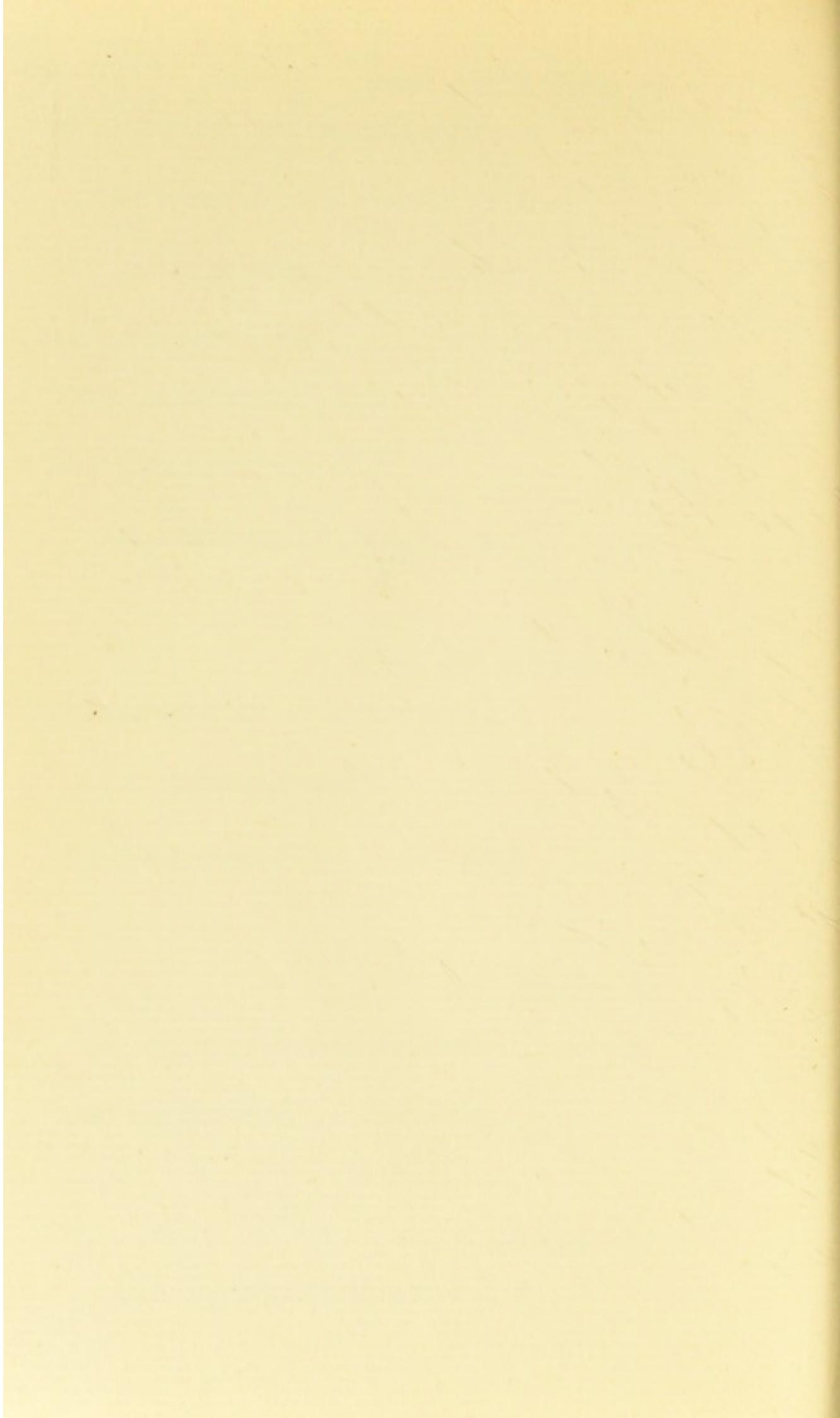


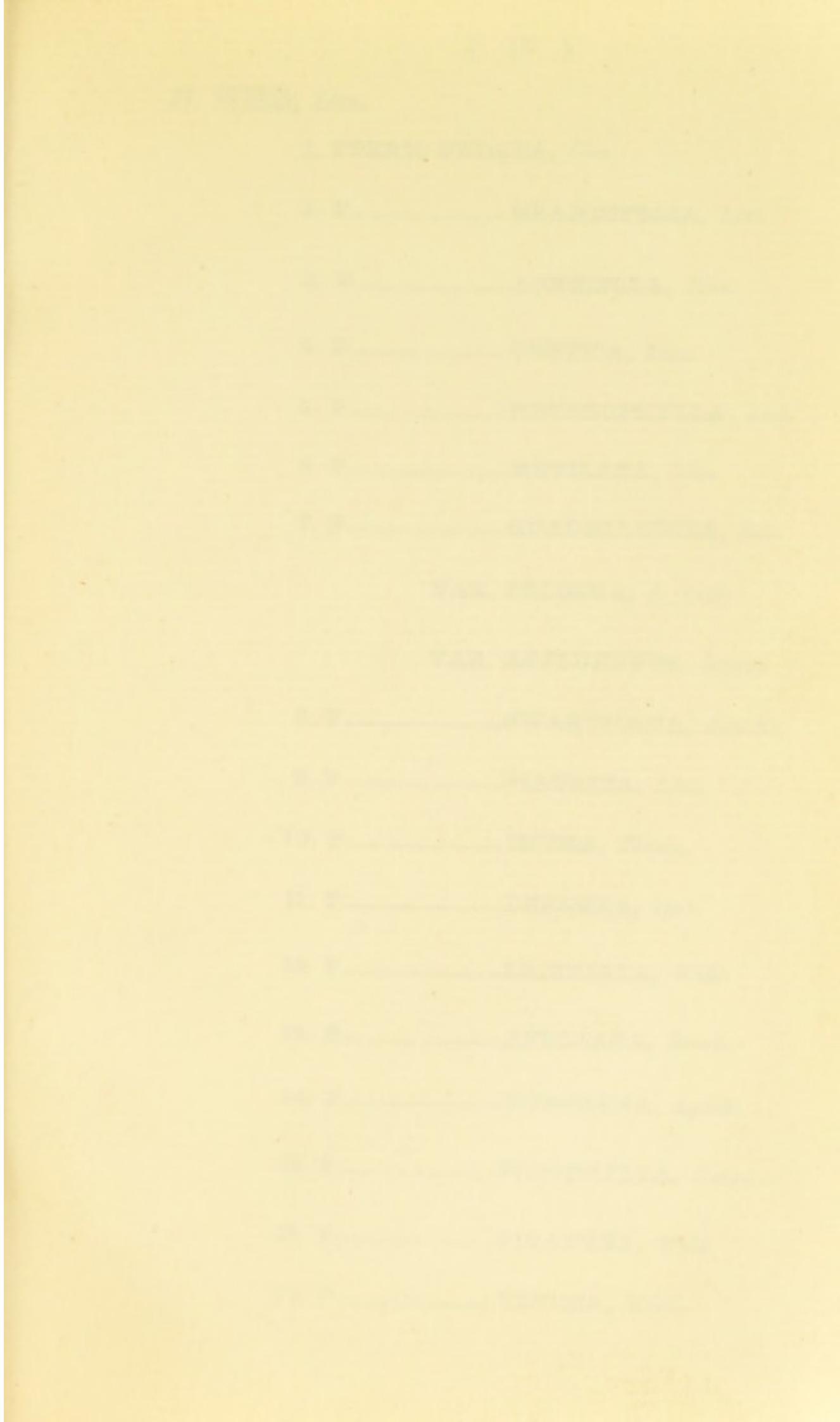


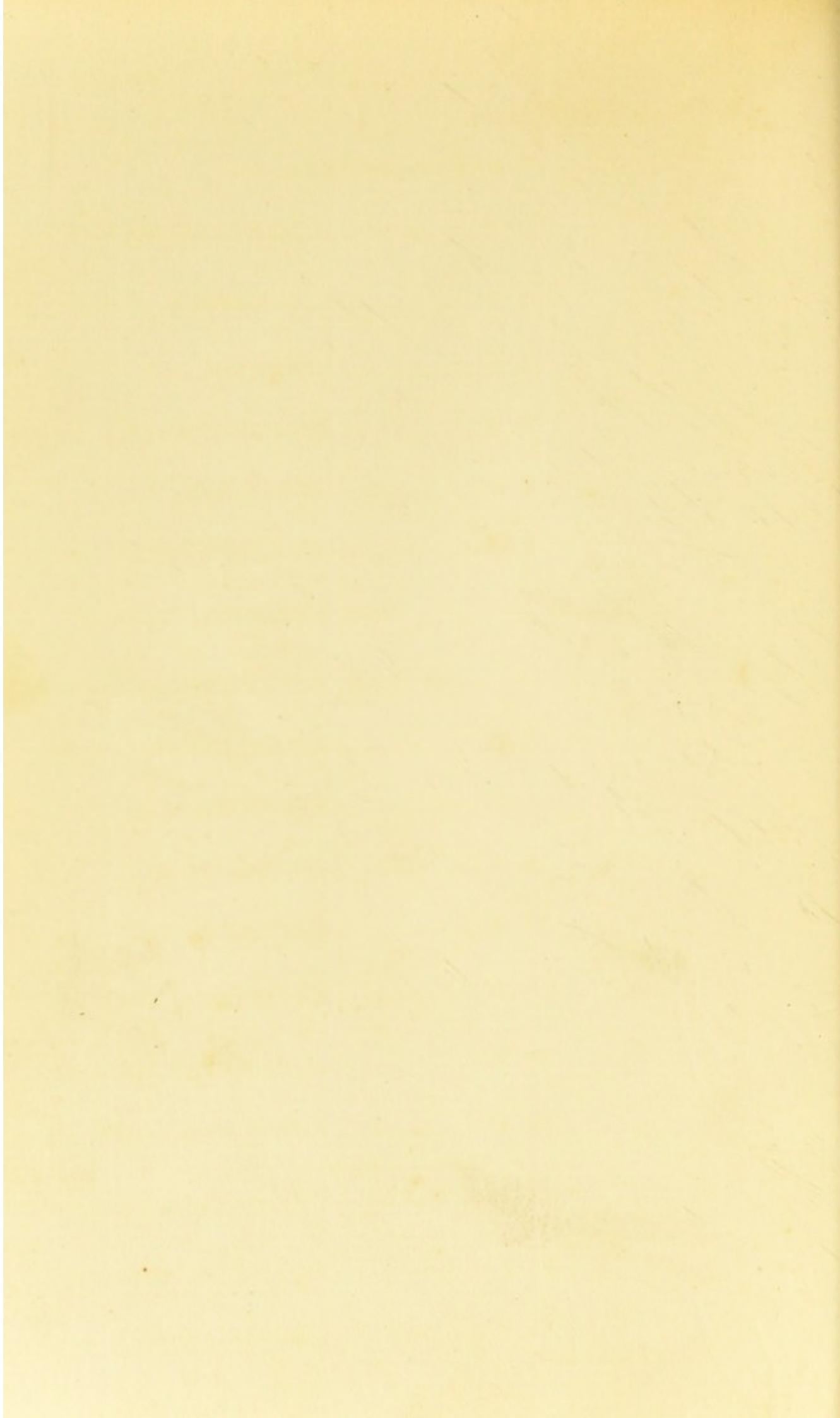
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MARCH 1870. 81

ADOLPHUS ALEXANDER, JR.



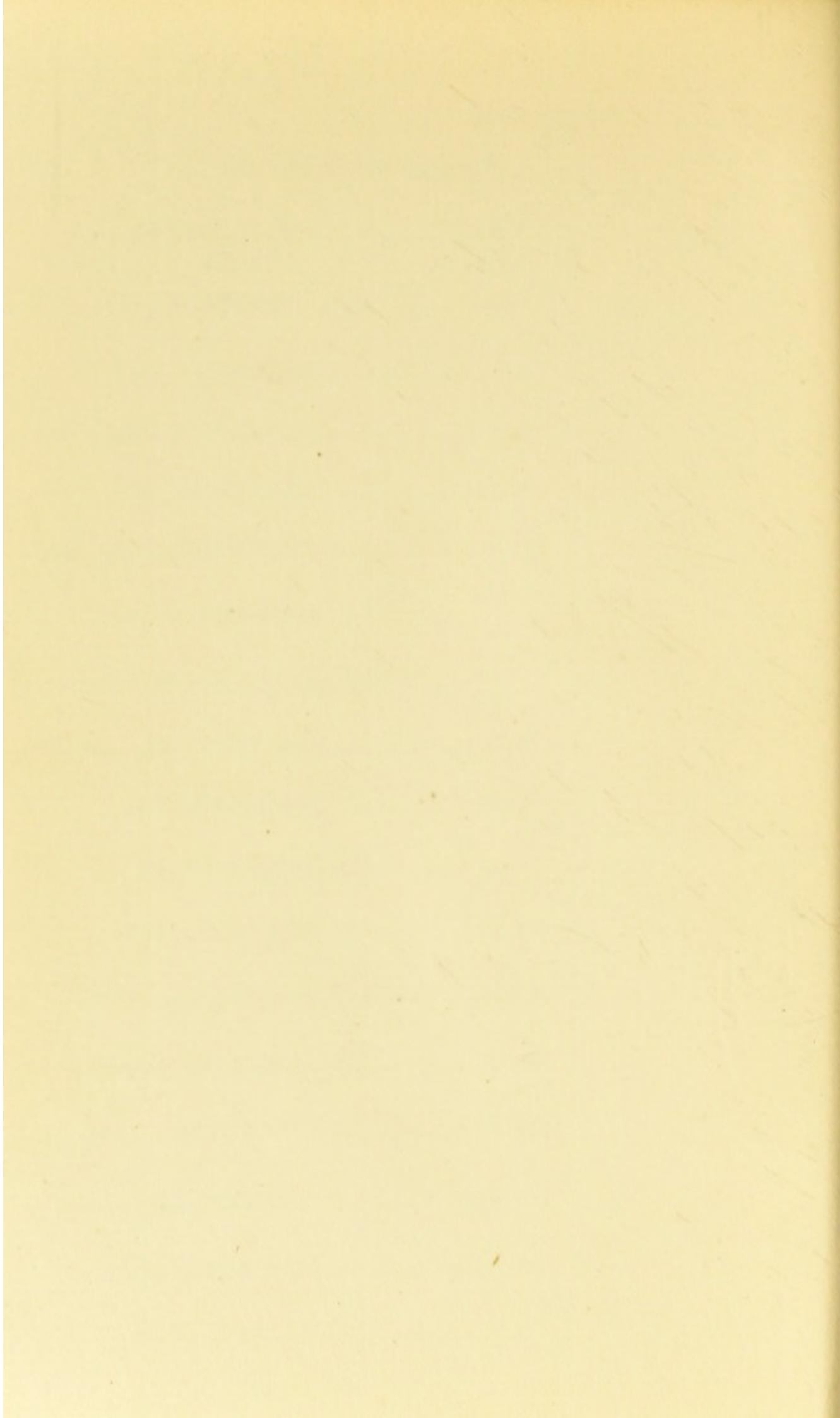


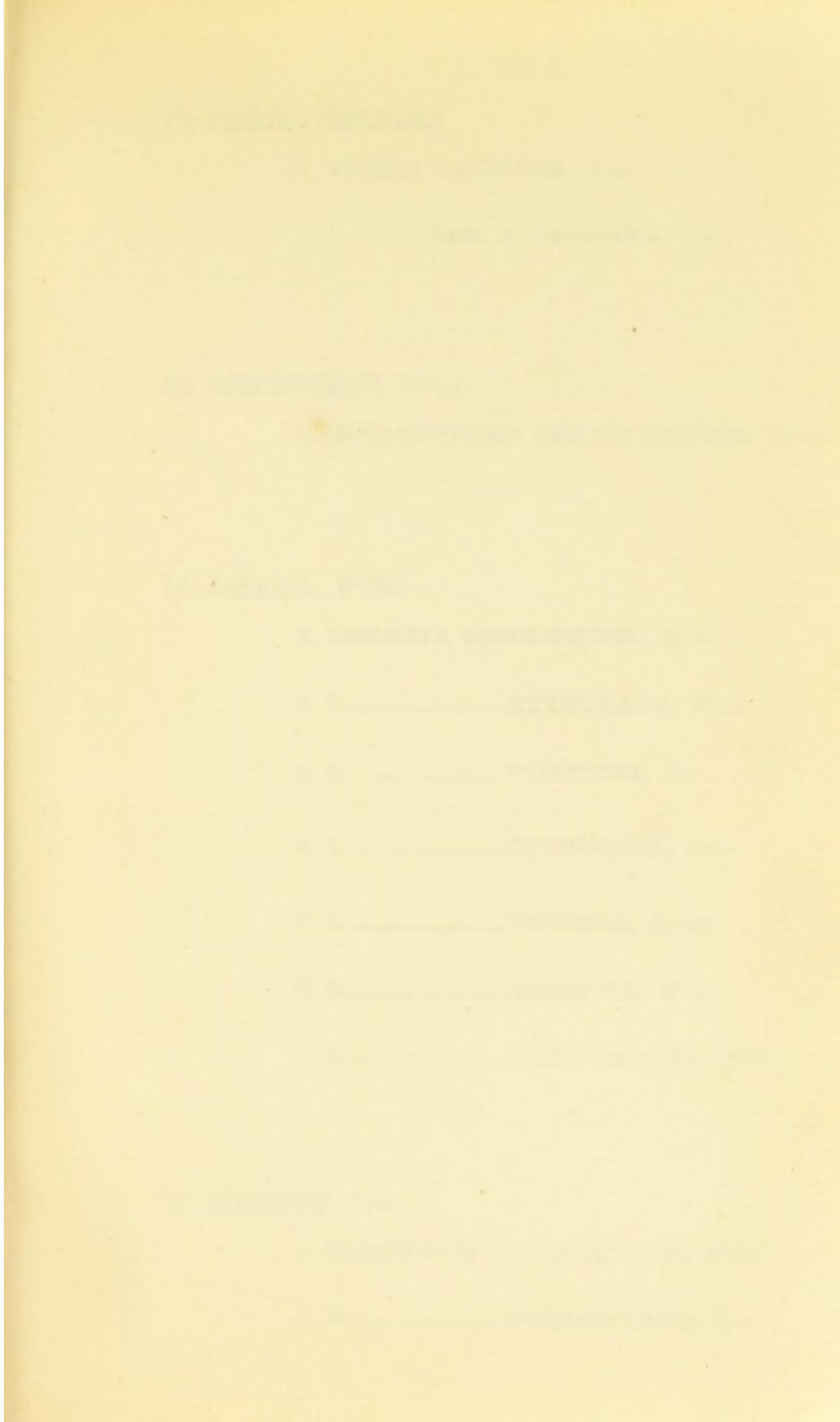


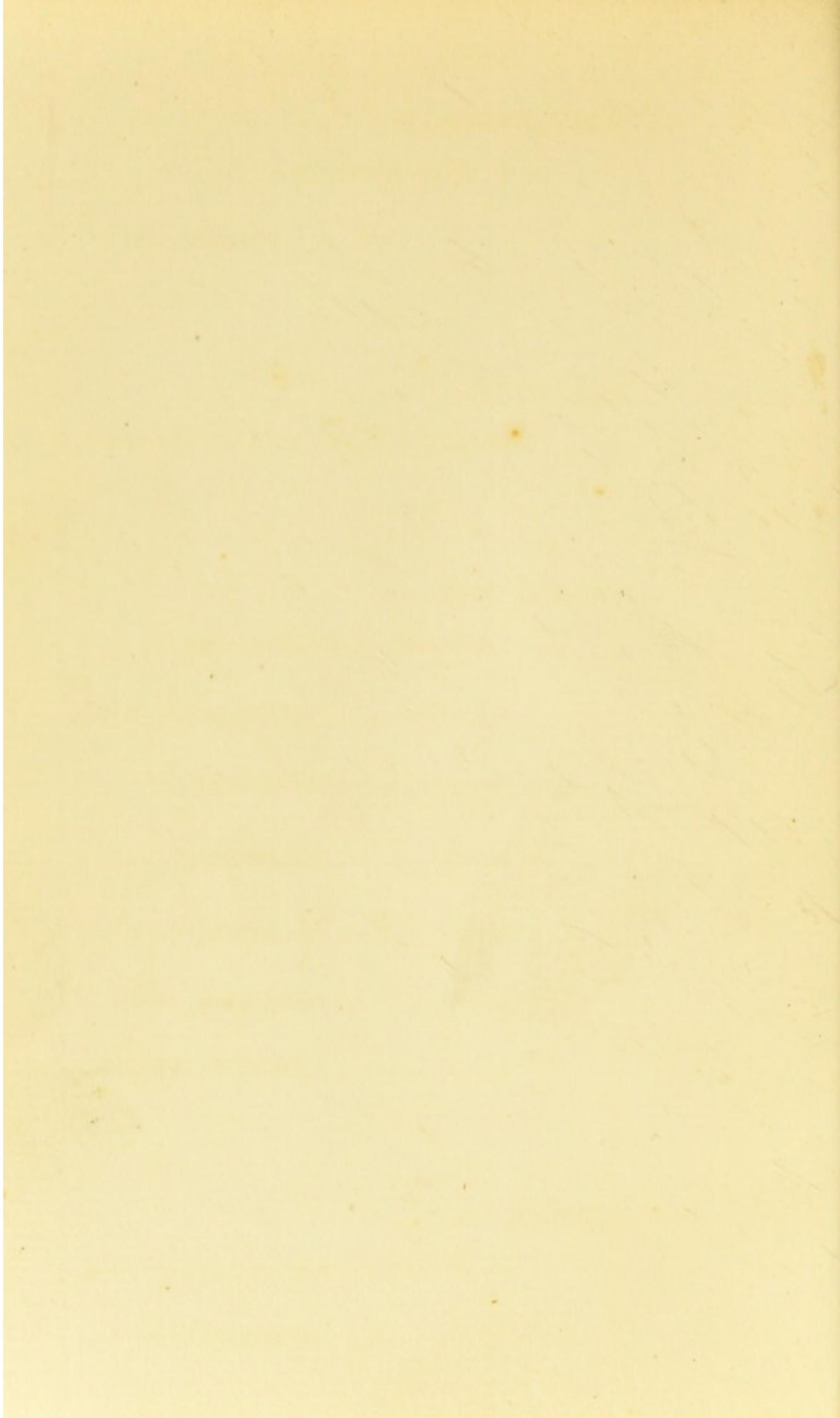
17. PTERIS, Linn.

1. PTERIS PEDATA, Linn.
2. P GRANDIFOLIA, Linn.
3. P LONGIFOLA, Linn.
4. P CRETICA, Linn.
5. P HETEROPHYLLA, Linn.
6. P MUTILATA, Linn.
7. P QUADRIAURITA, Retz.
VAR. FELOSMA, J. Smith.
- VAR. AFFLUENTUS, Jenman.
8. P SWARTZIANA, Agardth.
9. P BIAURITA, Linn.
10. P INCISA, Thunbg.
11. P DEFLEXA, Link.
12. P LACINIATA, Willd.
13. P ACULEATA, Swartz.
14. P KUNZEANA, Agardh.
15. P PODOPHYLLA, Swartz.
16. P GIGANTEA, Willd.
17. P VISCOSA, Moore.

200. *ATLANTA RUMPTA* L.







17. PTERIS—(Continued.)

18. PTERIS AQUILINA, Linn.

VAR. P. CAUDATA, Linn.

18. CERATOPTERIS, Brong.

1. CERATOPTERIS THALICTROIDES, Brong.

19. LOMARIA, Willd.

1. LOMARIA ONOCLEOIDES, Spreng.

2. L _____ ATTENUATA, Willd.

3. L _____ PLUMIERI, Fee.

4. L _____ DIVERGENS, Kunze.

5. L _____ PROCERA, Spreng.

6. L _____ BORYANA, Willd.

7. L _____ SEMICORDATA, Baker.

20. BLECHNUM, Linn.

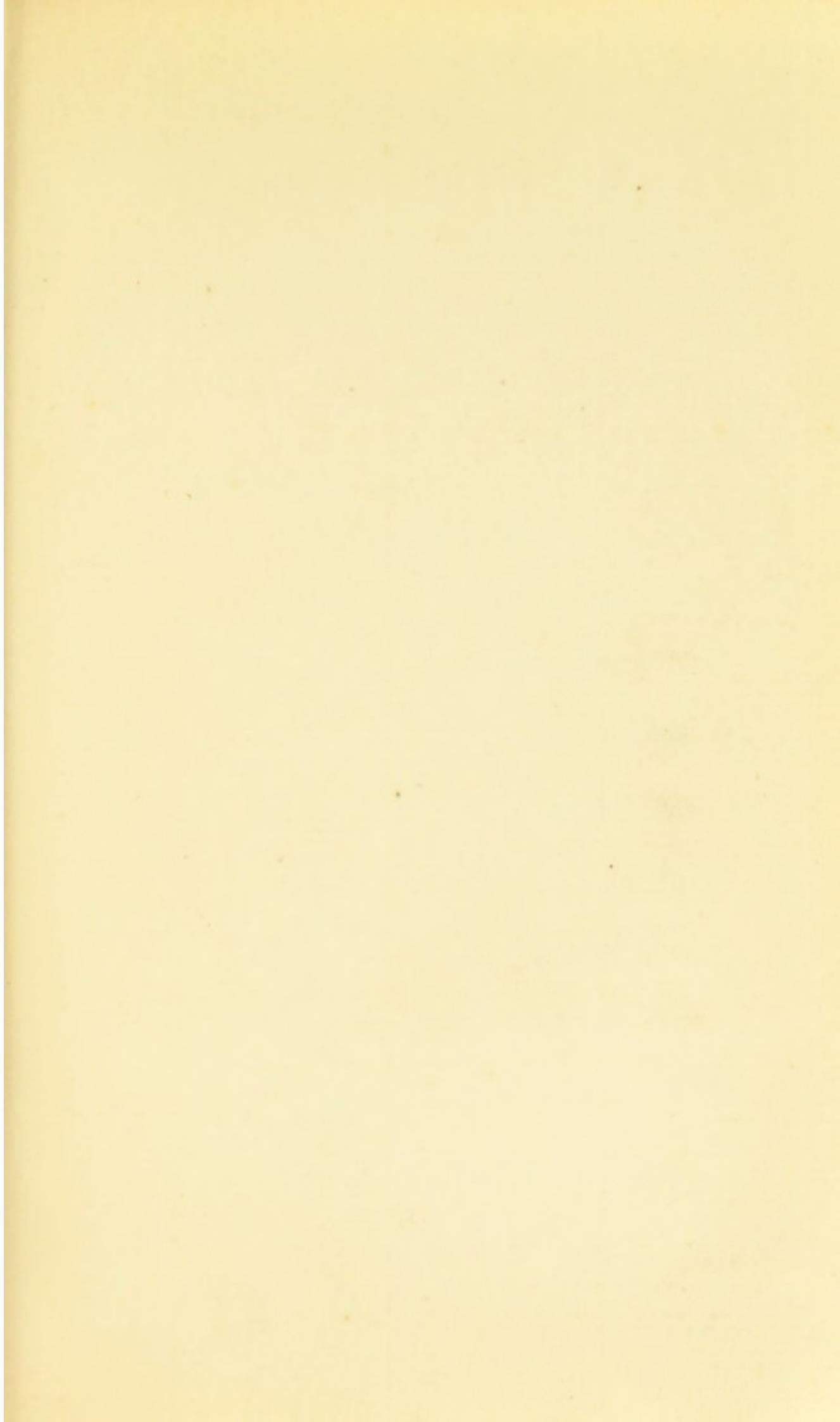
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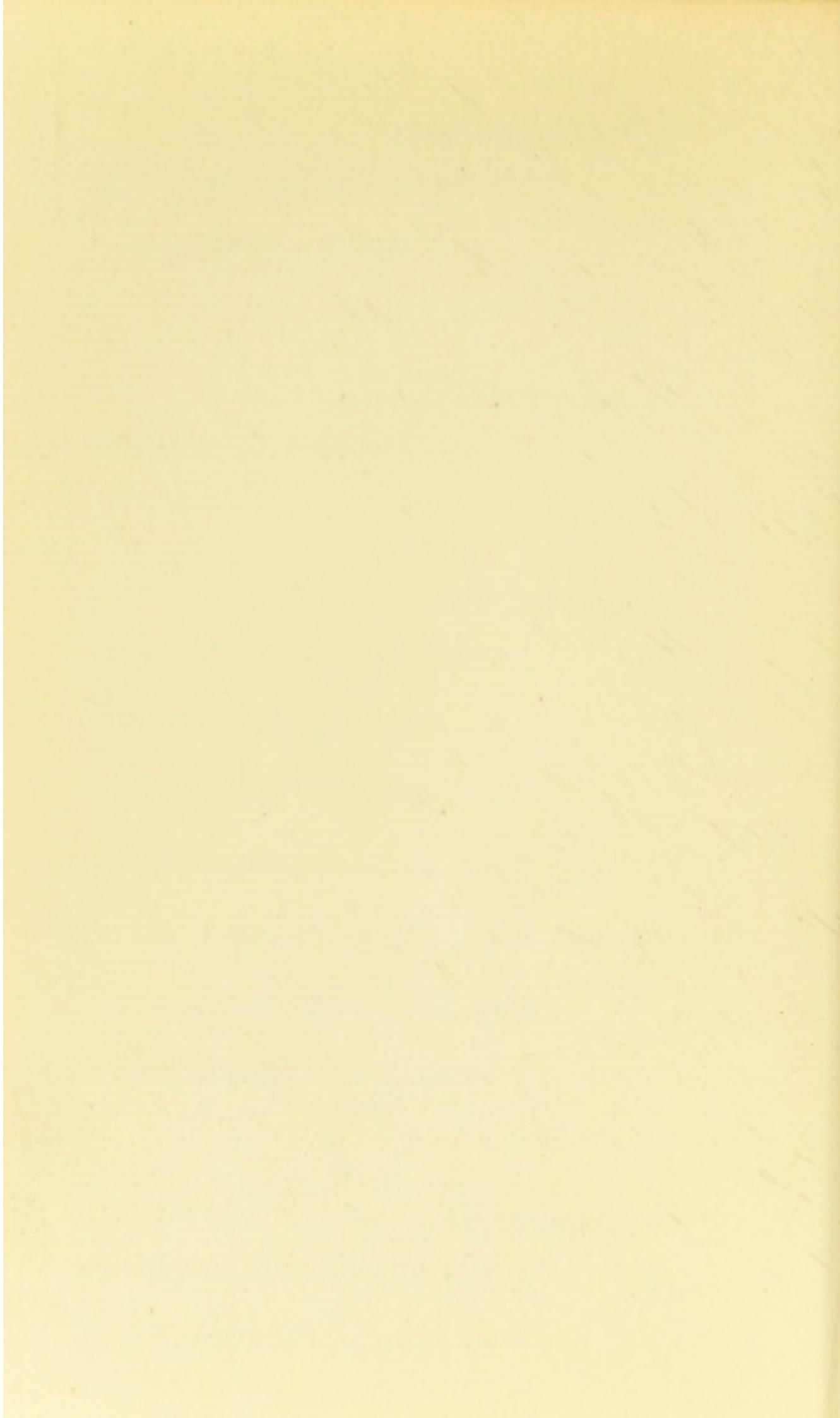
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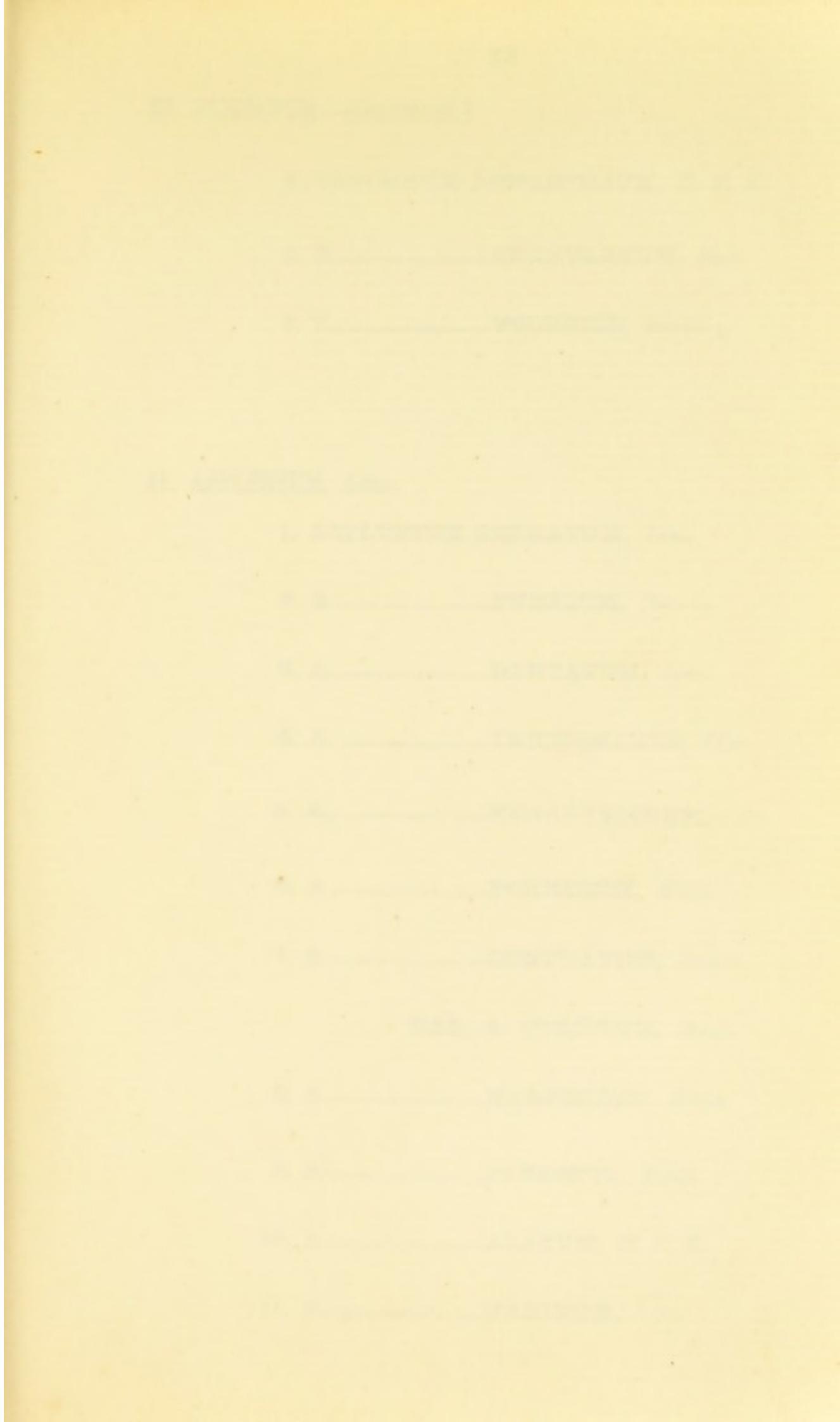
Chandos' Poetry.

with a few short stanzas.

old, ancient & new.







30. BLECHNUM—(Continued.)

3. BLECHNUM LONGIFOLIUM, H. B. K.

4. B SERRULATUM, Rich.

5. B VOLUBILE, Kaulf. *

21. ASPLENIUM, Linn.

1. ASPLENIUM SERRATUM, Linn.

2. A PUMILUM, Swartz.

3. A DENTATUM, Linn.

4. A TRICHOMANES, Linn.

5. A MONANTHEMUM, Linn.

6. A FORMOSUM, Willd.

7. A LUNULATUM, Swartz.

VAR. A. STRICTUM, Brack.

8. A HARPEODES, Kunze.

9. A PTEROPUS, Kaulf.

10. A ALATUM, H. B. K.

11. A MARINUM, Linn.

16

(Section) — KINGSVILLE, KS

25. 50. 50. PRECIPITATION INCHES
 1921. JANUARY.....A. 4

25. 50. 50. PRECIPITATION INCHES
 1921. FEBRUARY.....B. 3

25. 50. 50. PRECIPITATION INCHES
 1921. MARCH.....A. 12

25. 50. 50. PRECIPITATION INCHES
 1921. APRIL.....B. 5

25. 50. 50. PRECIPITATION INCHES
 1921. MAY.....A. 9

25. 50. 50. PRECIPITATION INCHES
 1921. JUNE.....B. 2

25. 50. 50. PRECIPITATION INCHES
 1921. JULY.....A. 7

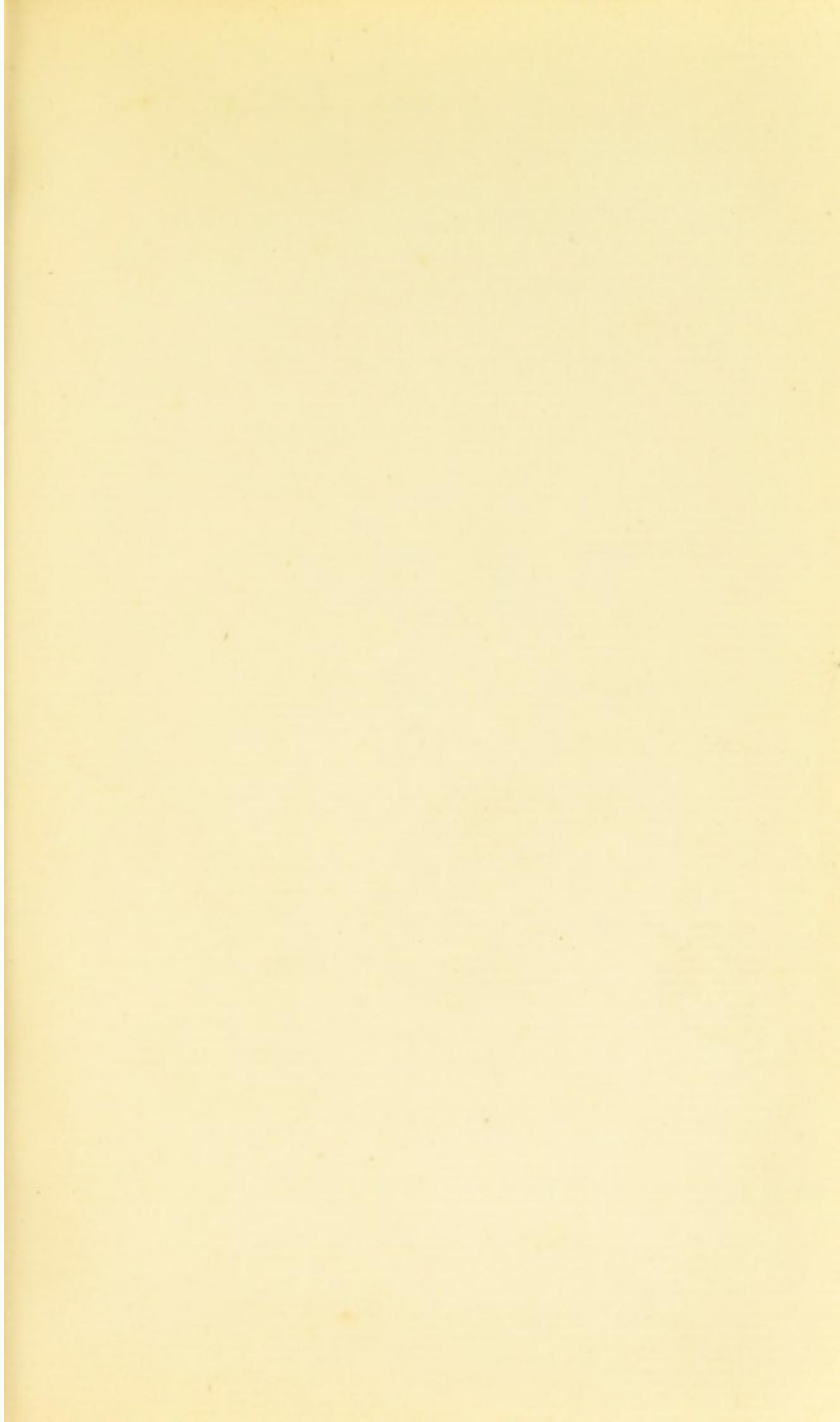
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 1921. AUGUST.....B. 3

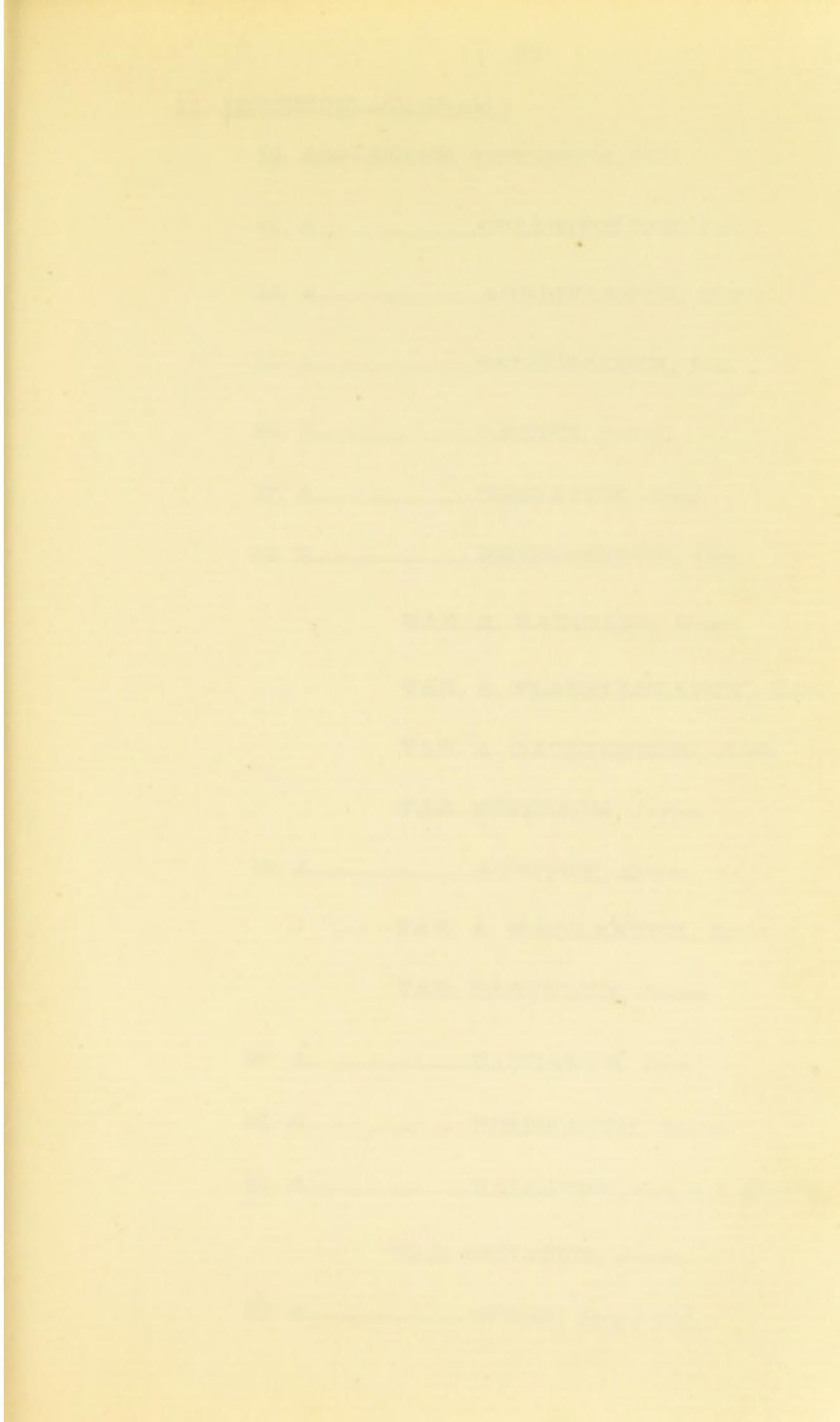
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 1921. SEPTEMBER.....A. 6

25. 50. 50. PRECIPITATION INCHES
 1921. OCTOBER.....B. 8

25. 50. 50. PRECIPITATION INCHES
 1921. NOVEMBER.....B. 10

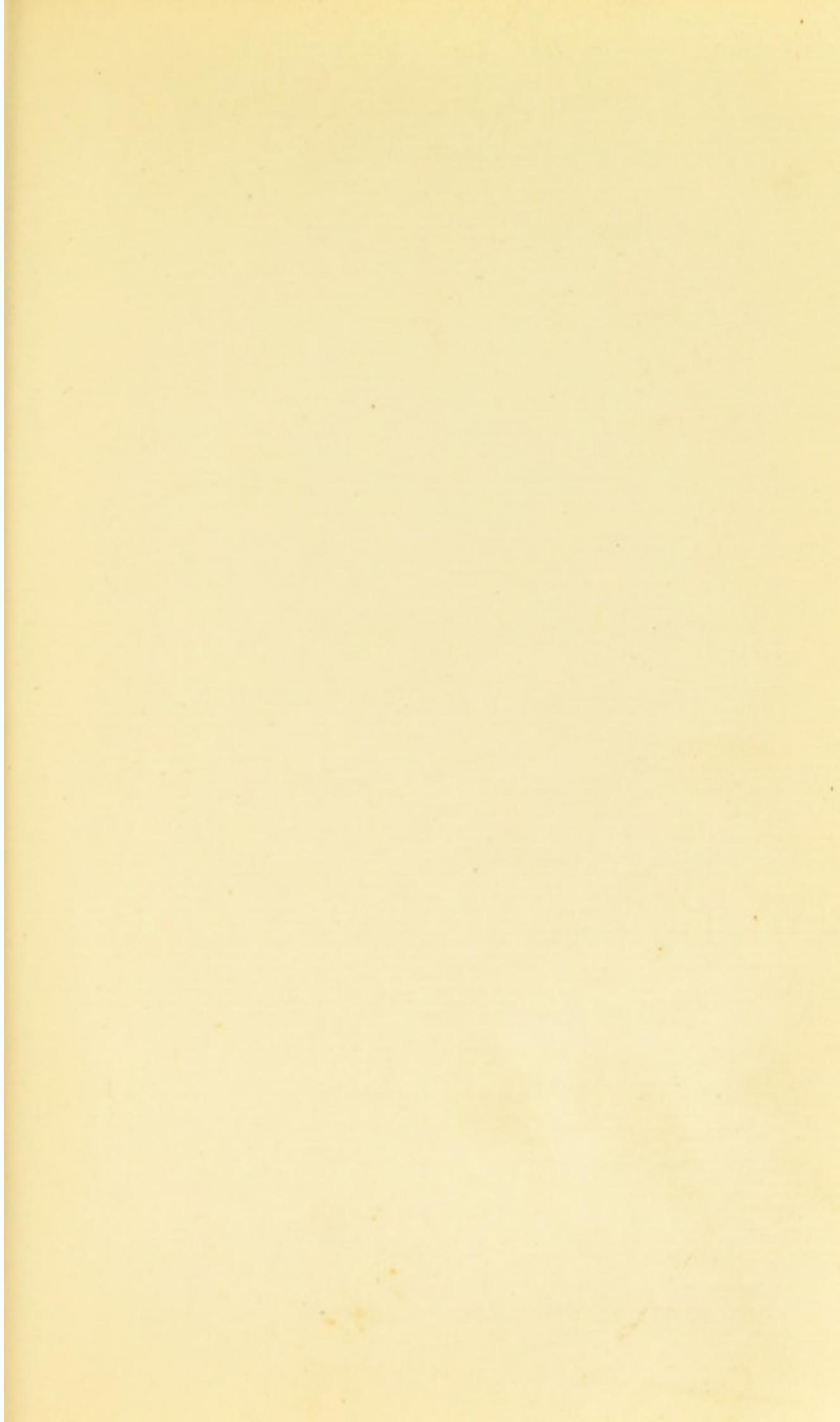
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 1921. DECEMBER.....A. 12

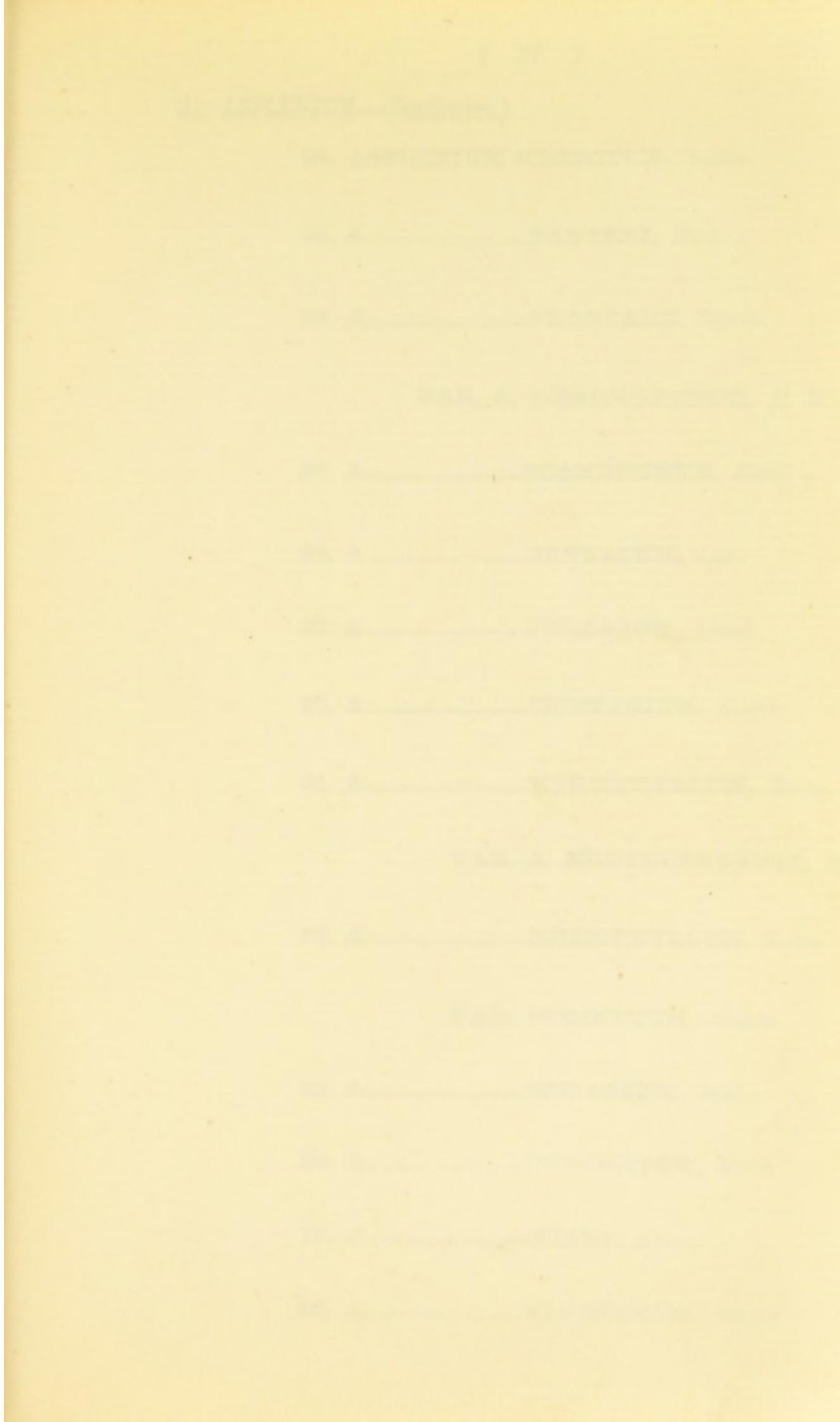




21. ASPLENIUM—(Continued.)

12. **ASPLENIUM ABSCISSIONE**, Willd.13. **A_____CULTRIFOLIUM**, Linn.14. **A_____AURICULATUM**, Swartz.15. **A_____SALICIFOLIUM**, Linn. *16. **A_____LÆTUM**, Swartz.17. **A_____HASTATUM**, Klotch.18. **A_____RHIZOPHORUM**, Linn.**VAR. A. RADICANS**, Swartz.**VAR. A. FLABELLULATUM**, Kunze.**VAR. A. RACHIRHIZON**, Raddi.**VAR. SUPERSUM**, Jenman.19. **A_____AURITUM**, Swartz.**VAR. A. MACILENTUM**, Kunze.**VAR. PARVULUM**, Jenman.20. **A_____CAUDATUM**, Forst.21. **A_____DIMIDIATUM**, Swartz.22. **A_____FALCATUM**, Lam. = A. EROSUM,**VAR. ORNATUM**, Jenman.23. **A_____SERRA**, Lang & Fish.

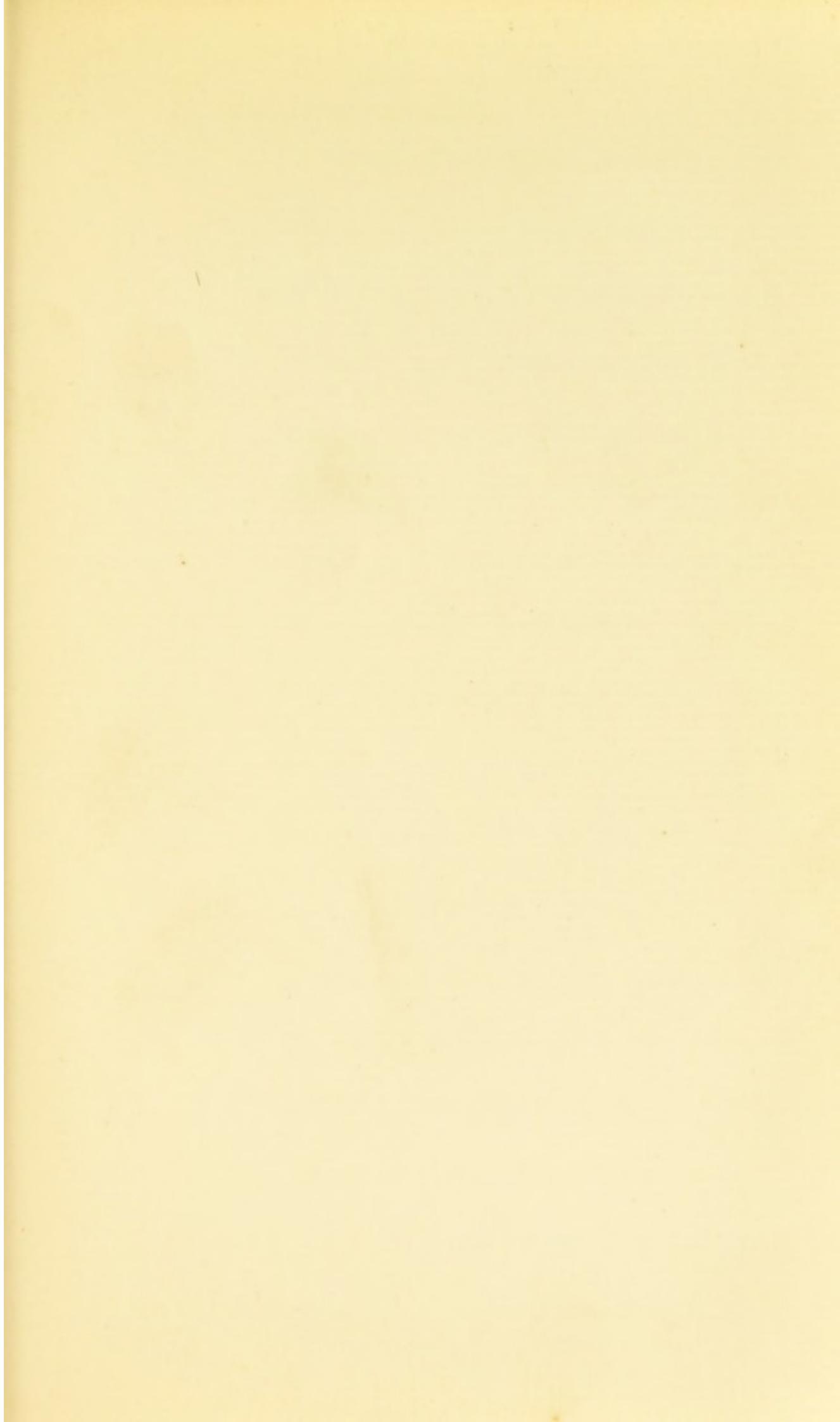


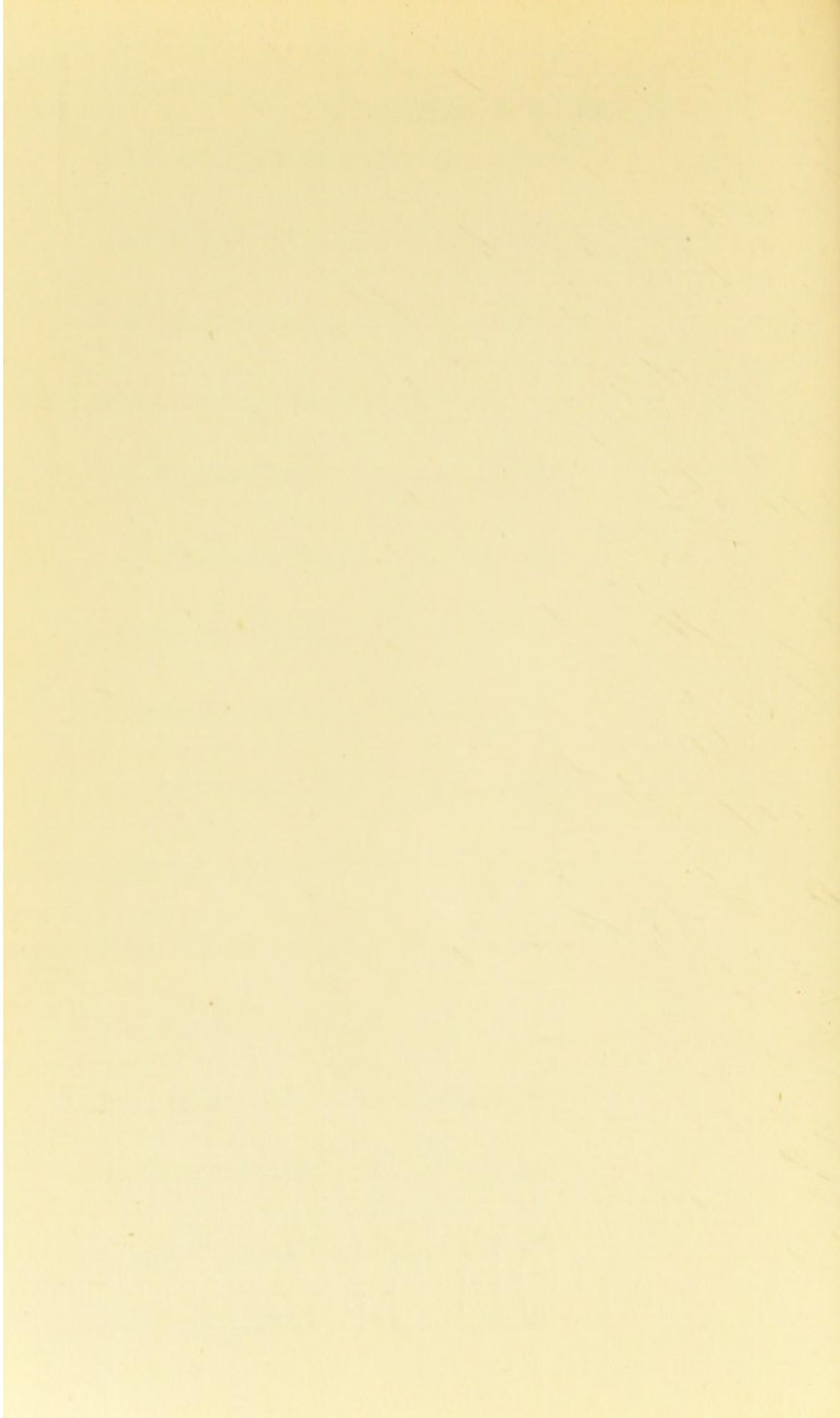


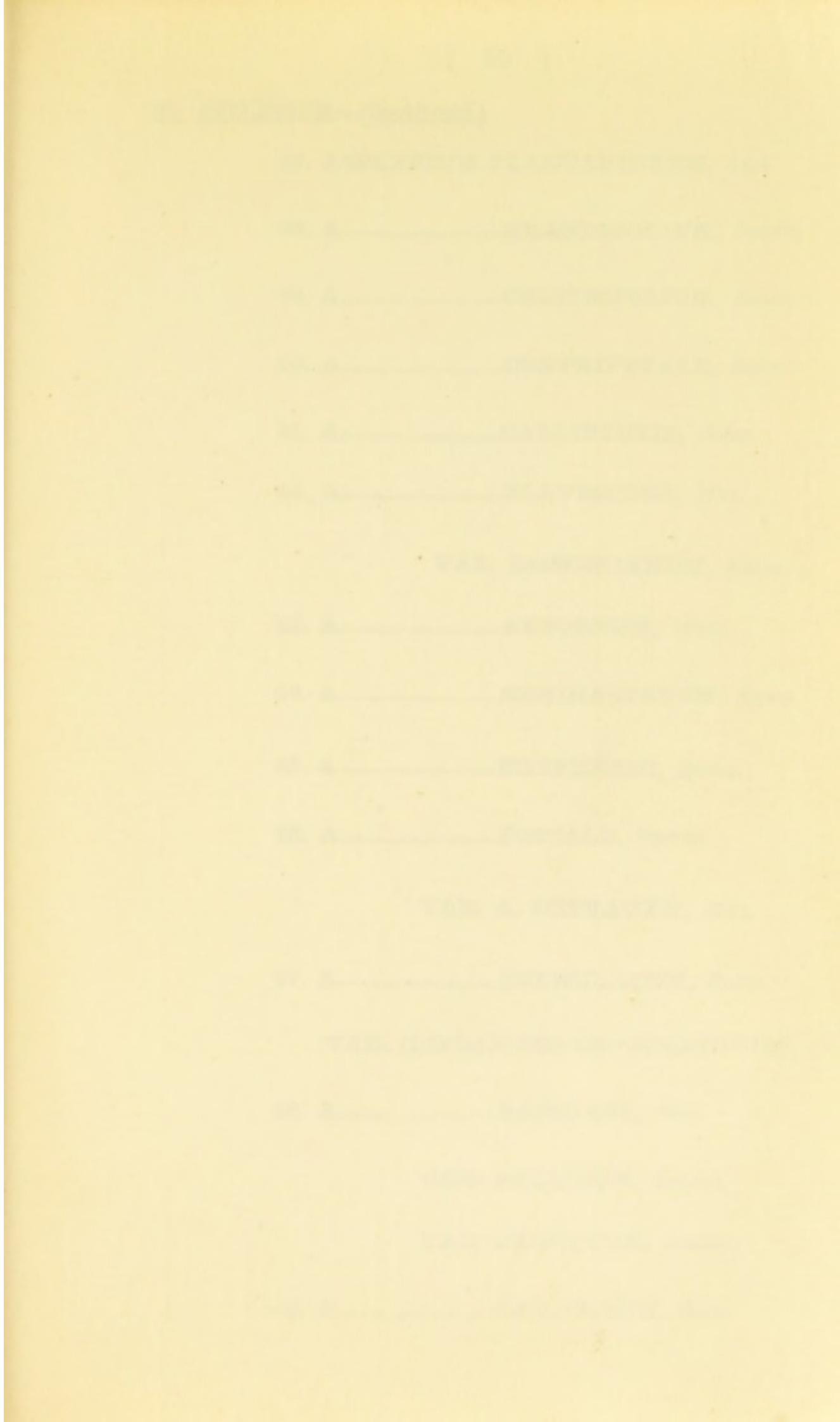
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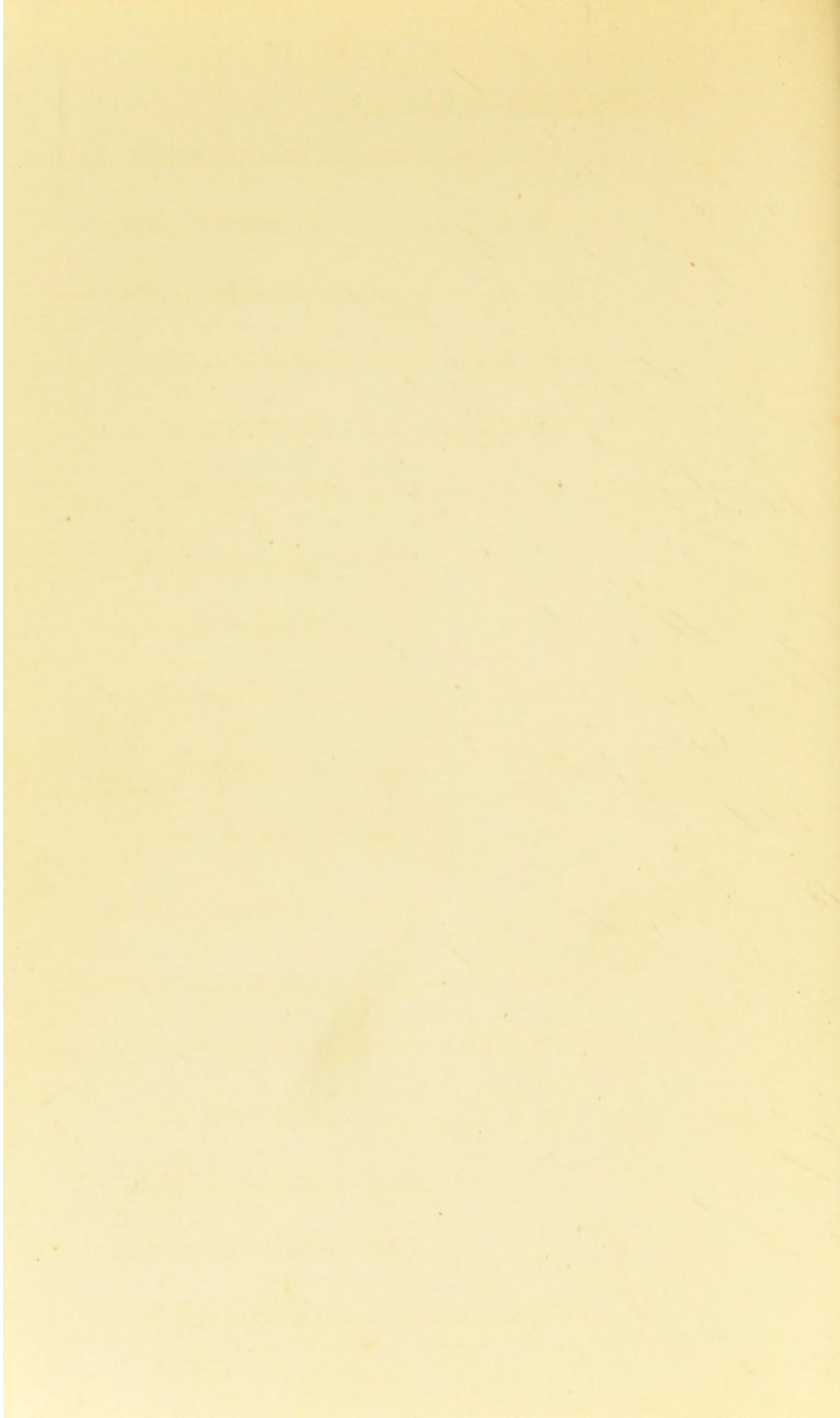
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жена, жертва мученической смерти







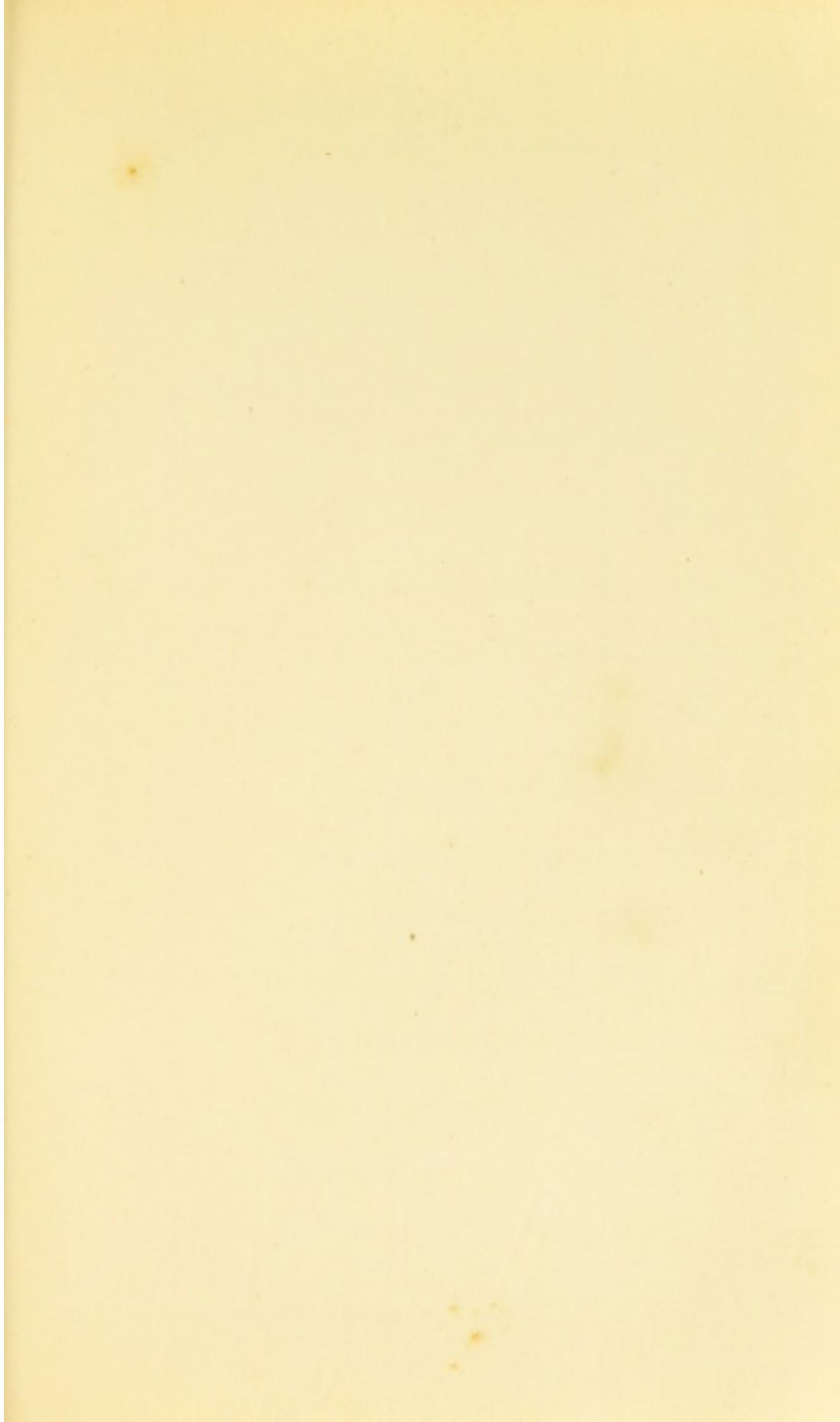


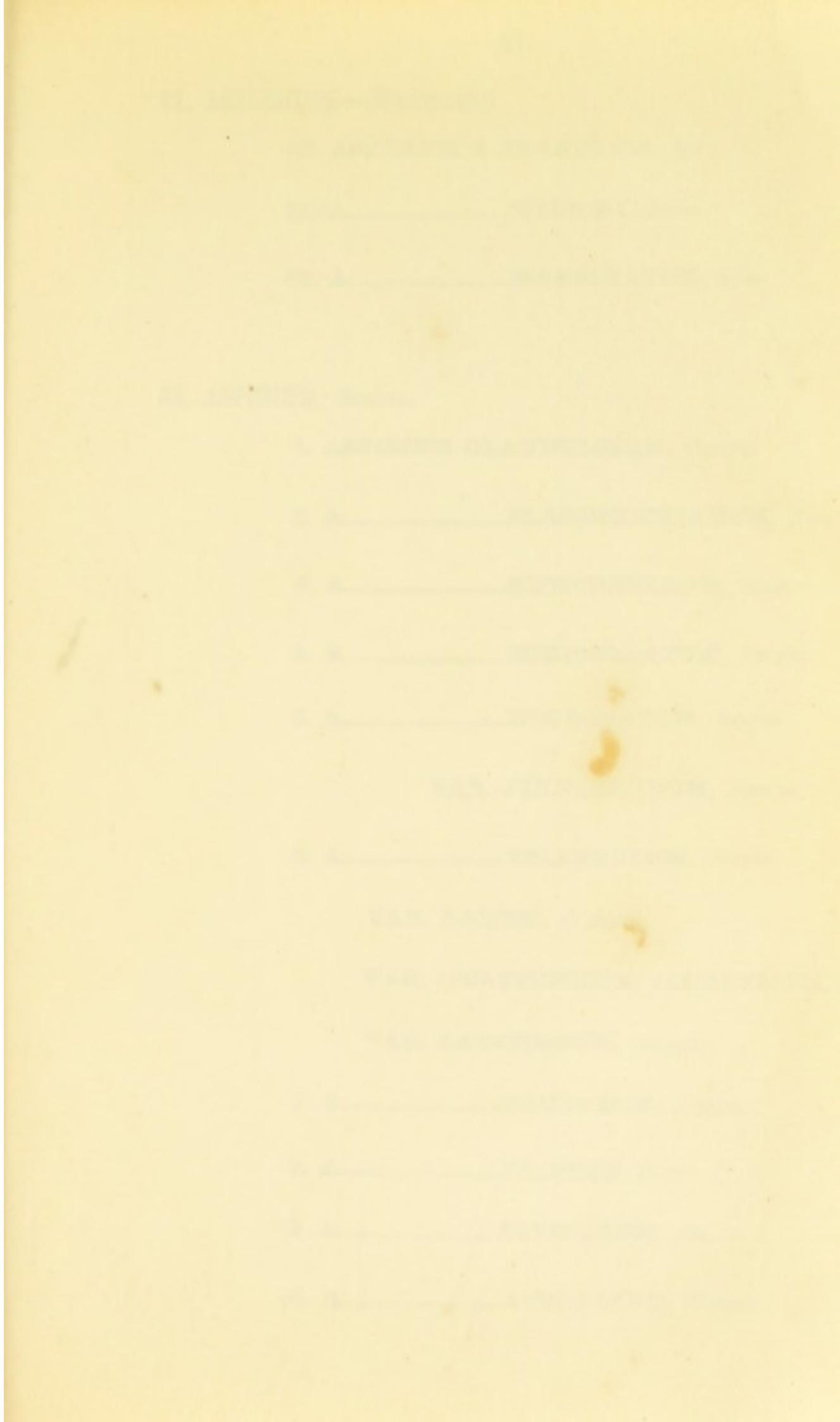
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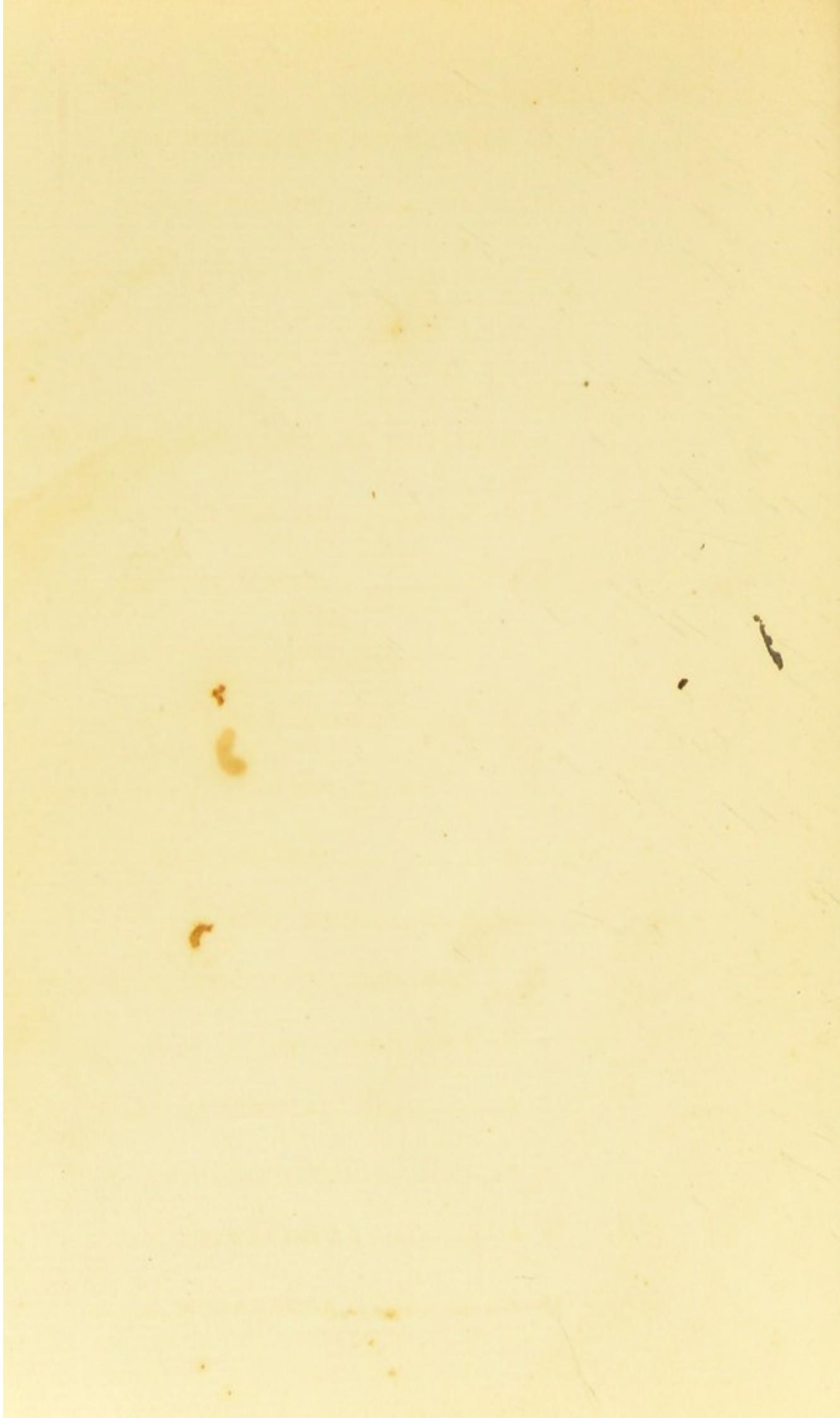
37. ASPLENIUM PLANTAGINEUM, *Linn.*38. A—GRANDIFOLIUM, *Swartz.*39. A—CELTIDIFOLIUM, *Kunze.*40. A—CENTRIPETALE, *Baker.*41. A—CALLIPTERIS, *Baker.*42. A—FLAVESCENS, *Mett.* *VAR. RØEMERIANUM, *Kunze.* *43. A—ARBOREUM, *Willd.*44. A—SEMIHASTATUM, *Kunze.*45. A—SHEPHERDI, *Spreng.*46. A—COSTALE, *Swartz.*VAR. A. DESVAUXII, *Mett.*47. A—CRENULATUM, *Baker.*VAR. (DIPLAZIUM) GRAMMATOIDES, *Fée*48. A—RADICANS, *Schk.*VAR. PALLIDUM, *Jenman.*VAR. CRENATUM, *Jenman.*49. A—DIMINUTUM, *Baker.*

(Continued) - MUNICIPAL 12

with, *Leucostoma tenuissimum* HEDD.adult, *Lutreola luteola* L.adult, *Phalacrocorax carbo* L.adult, *Pica pica* L.adult, *Sturnus vulgaris* L.adult, *Trochocercus troglodytes* L.adult, *Vaccinium myrtillus* L.adult, *Accipiter nisus* L.adult, *Alauda arvensis* L.adult, *Circus aeruginosus* L.adult, *Coracias garrulus* L.adult, *Coracias benghalensis* L.adult, *Coracias benghalensis* L.adult, *Coracias benghalensis* L.adult, *Coturnix coturnix* L.adult, *Corvinella leucomela* L.adult, *Corvinella leucomela* L.adult, *Cuculus canorus* L.







21. **ASPLENIUM**—(Continued.)50. **ASPLENIUM FRANCONIS**, Mett.51. A. **WILSONI**, Baker.52. A. **MARGINATUM**, Linn.22. **ASPIDIUM**, Swartz.1. **ASPIDIUM GLANDULOSUM**, Swartz.2. A. **PLASCHNICKIANUM**, Kunz.3. A. **RHIZOPHYLLUM**, Swartz.4. A. **SEMICORDATUM**, Swartz.5. A. **MUCRONATUM**, Swartz.**VAR. PINNATIFIDUM**, Jenman.6. A. **TRIANGULUM**, Swartz.**VAR. LAXUM**, J. Smith.**VAR. (POLYSTICHUM) ILICIFOLIUM**,**VAR. LATIPINNUM**, Jenman.7. A. **CAUDATUM**, Jenman.8. A. **TRIDENS**, Hook.9. A. **VIVIPARUM**, Fee.10. A. **ACULEATUM**, Swartz.

Concluded—MURKINIA 12

annual, MURKINIA 10

annual, MURKINIA 11

annual, MURKINIA 12

annual, MURKINIA 13

annual, MURKINIA 14

annual, MURKINIA 15

annual, MURKINIA 16

annual, MURKINIA 17

annual, MURKINIA 18

annual, MURKINIA 19

annual, MURKINIA 20

annual, MURKINIA 21

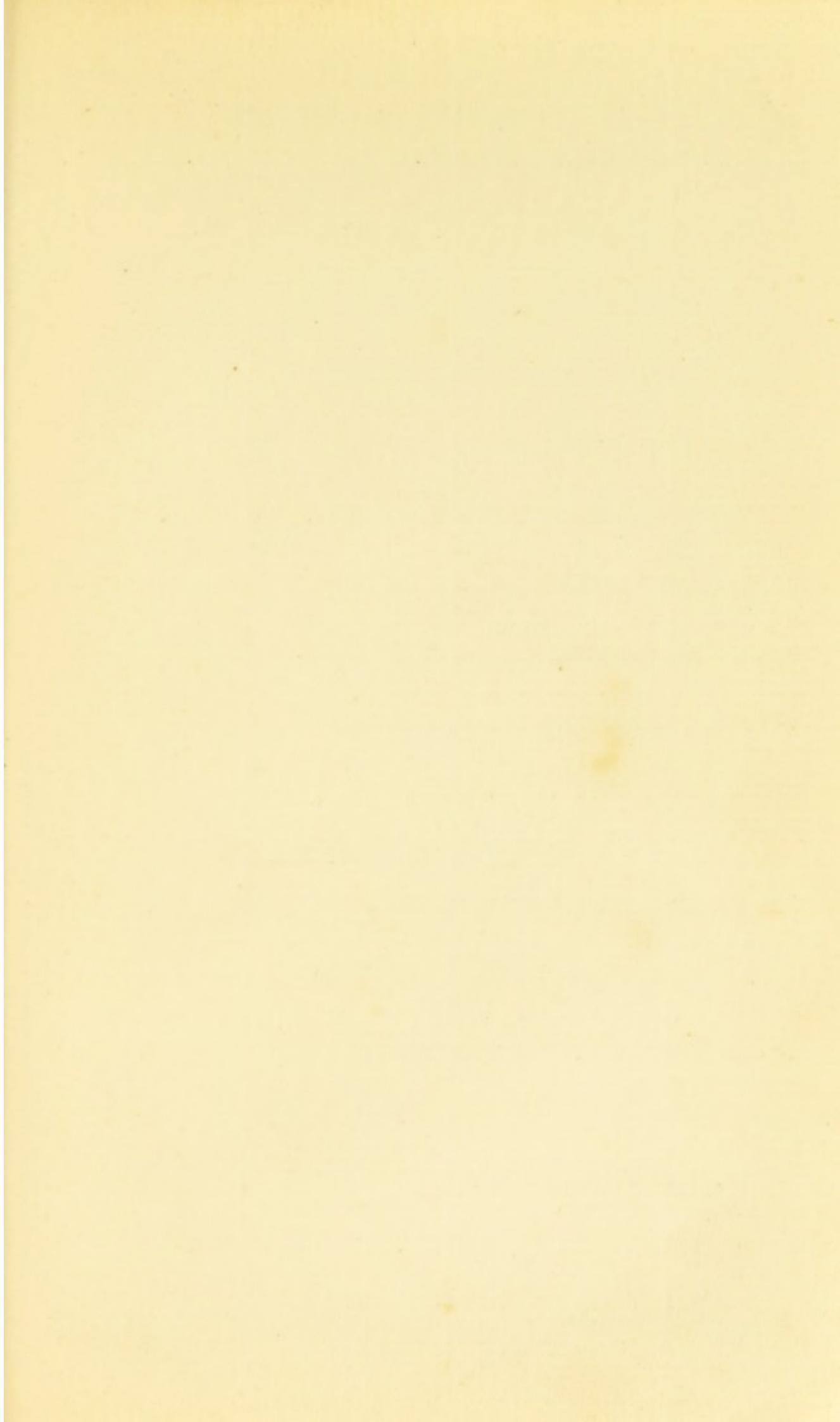
annual, MURKINIA 22

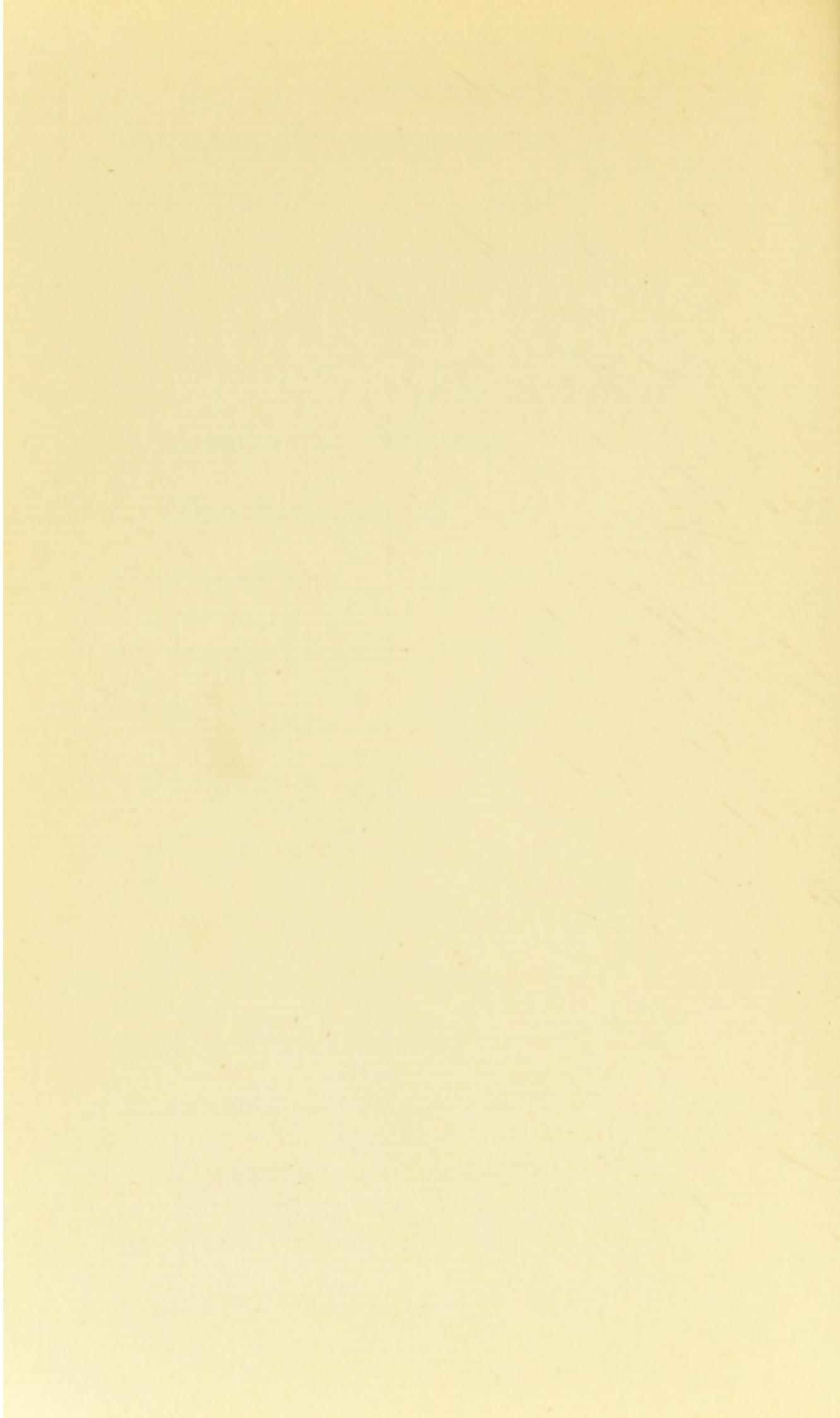
annual, MURKINIA 23

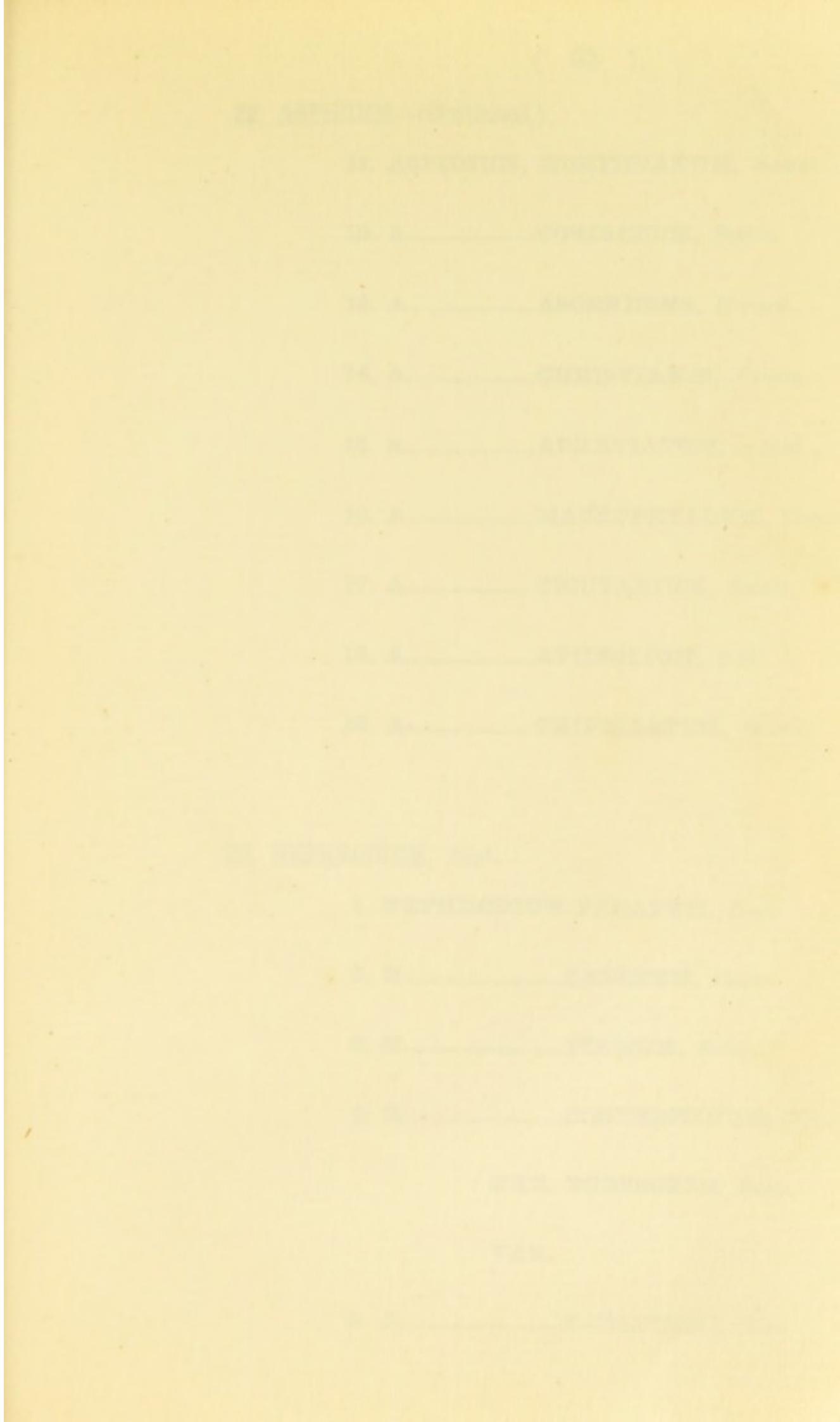
annual, MURKINIA 24

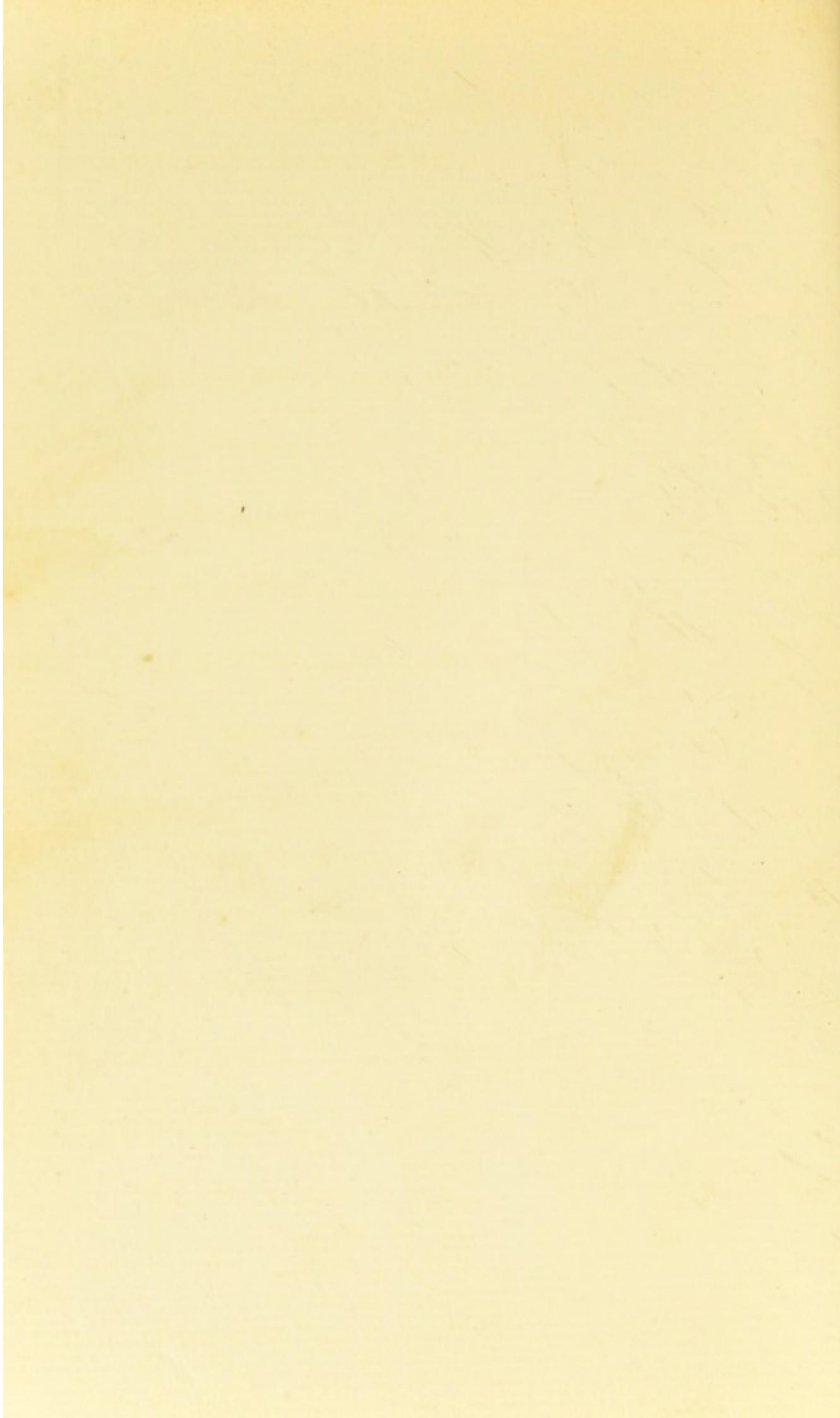
annual, MURKINIA 25

annual, MURKINIA 26









22. ASPIDIUM—(Continued.)

11. ASPIDIUM, MORITZIANUM, *Swartz.*12. A CORIACEUM, *Swartz.*13. A ASCENDENS, *Heward.*14. A CHRISTIANÆ, *Jenman.*15. A ABREVIATUM, *Schrad.* *16. A MACROPHYLLUM, *Swartz.*17. A CICUTARIUM, *Swartz.*18. A APIIFOLIUM, *Schk.*19. A TRIFOLIATUM, *Swartz.*23. NEPHRODIUM, *Rich.*1. NEPHRODIUM PEDATUM, *Hook.*2. N SANCTUM, *Baker.*3. N FIRMUM, *Baker.*4. N CONTERMINUM, *Baker.*VAR. PUBESCENS, *Baker.*

VAR.

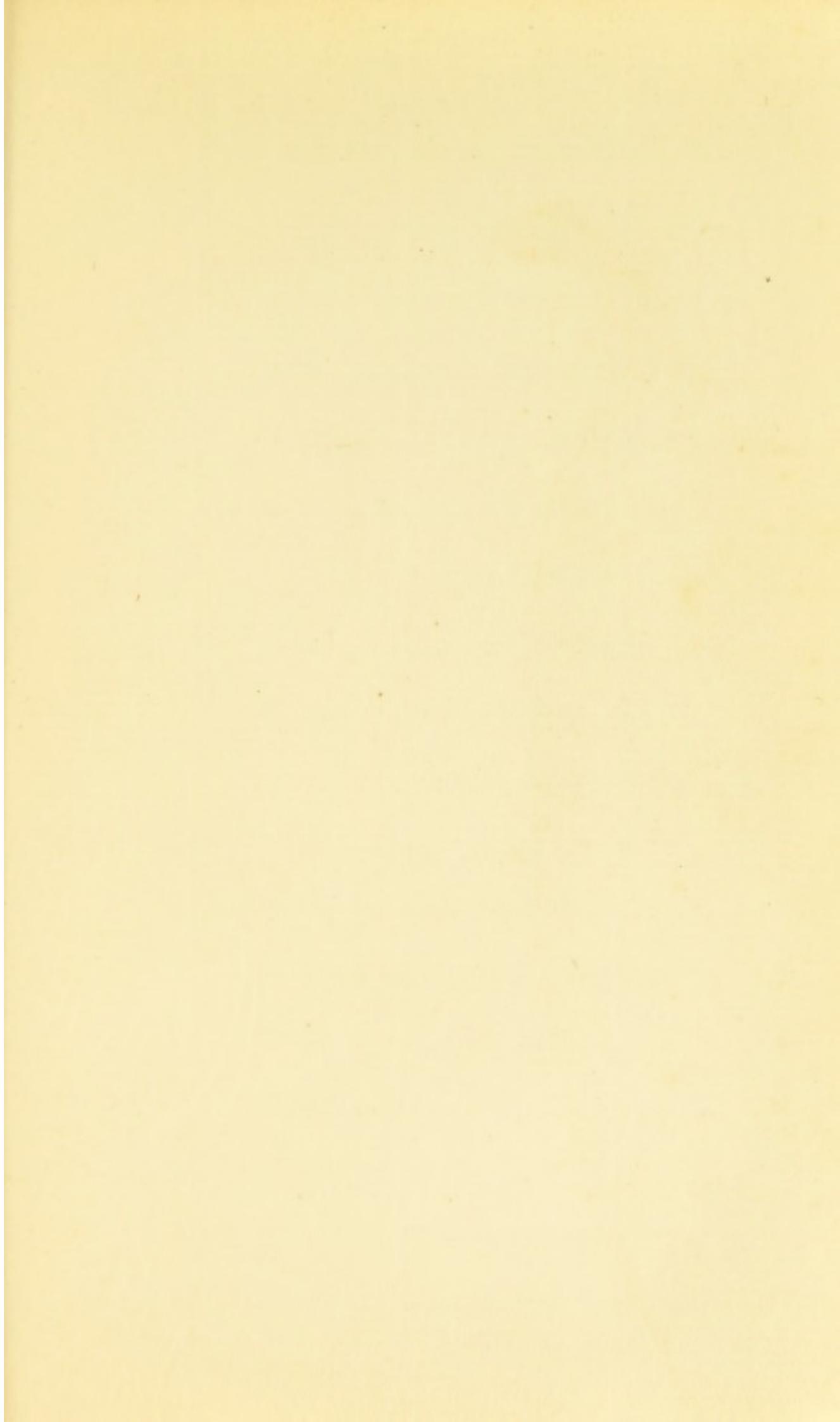
5. N KAULFUSSII, *Hook.* *

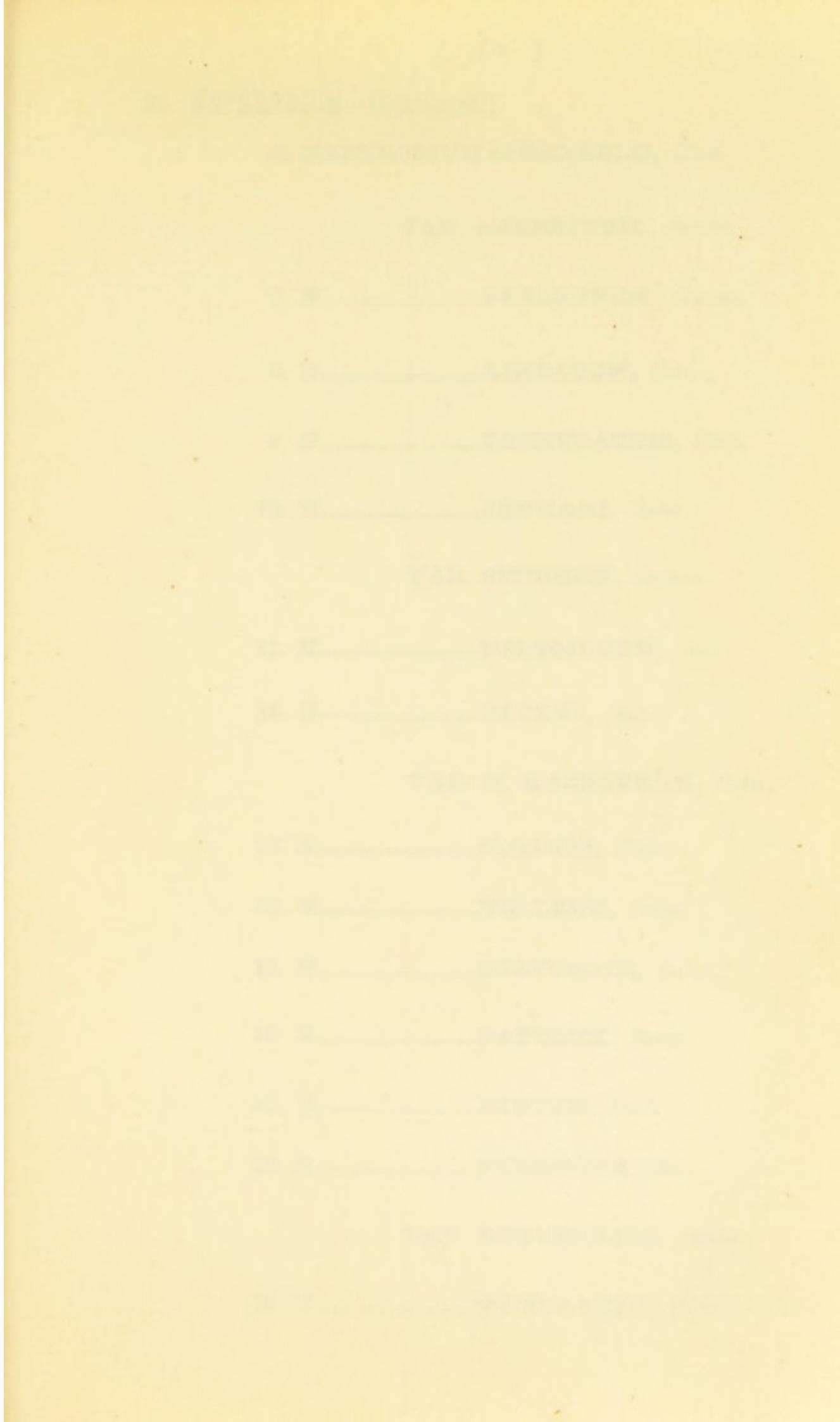
(Baudouin) - BOUTEILLE 22

Bouteille, BOUTEILLE, BOUTEILLE, BOUTEILLE

(Baudouin) - BOUTEILLE 22

Bouteille, BOUTEILLE, BOUTEILLE, BOUTEILLE

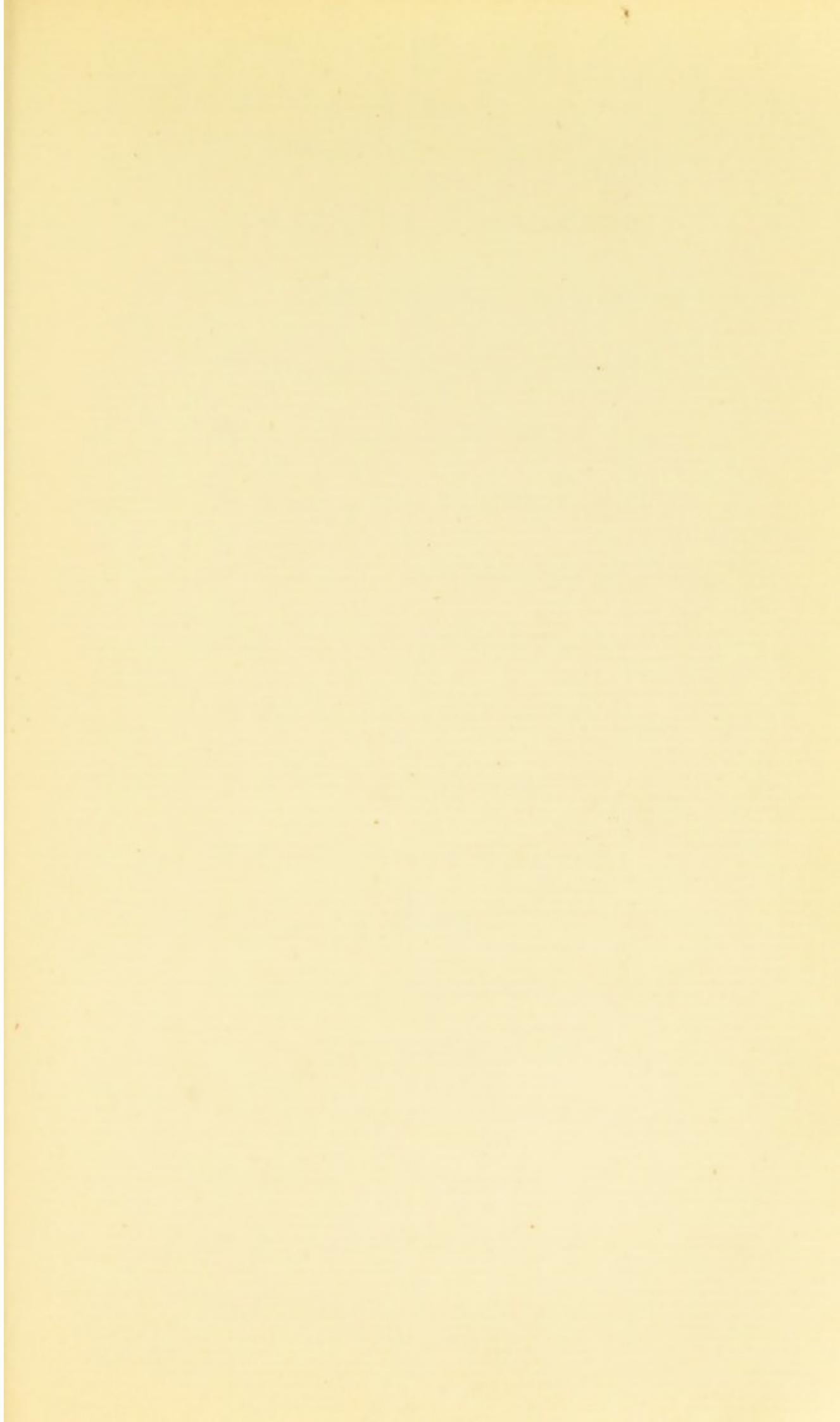


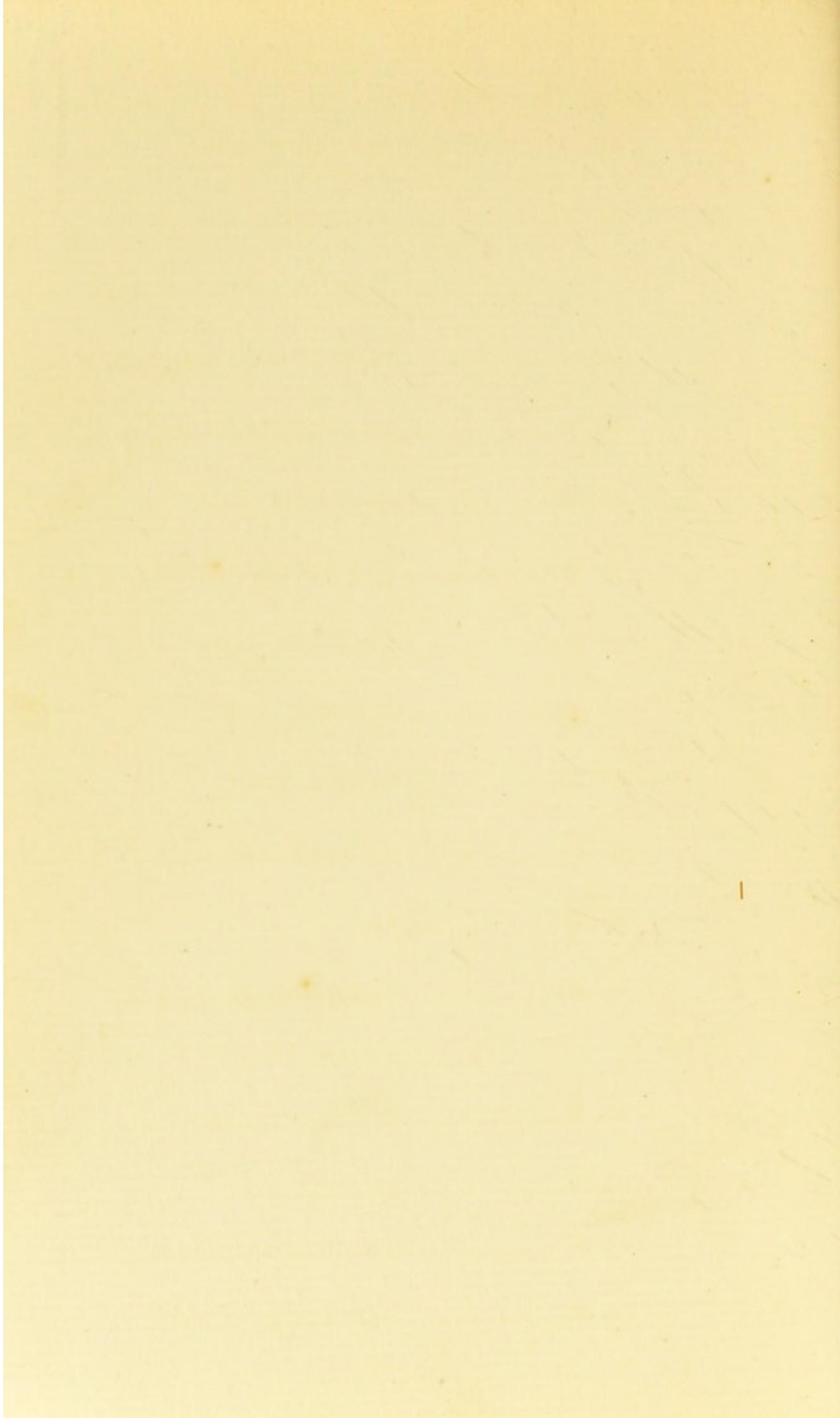


23. NEPHRODIUM—(Continued.)

6. NEPHRODIUM SPRENGELII, *Hook.*VAR. SHERRINGII, *Jenman.*7. N—————PERSICINUM, *Jenman.*8. N—————LIMBATUM, *Desv.* *9. N—————PACHYRACHIS, *Hook.*10. N—————JENMANI, *Baker.*VAR. SITIORUM, *Jenman.*11. N—————DELTOIDEUM, *Desv.*12. N—————PATENS, *Desv.*VAR. N. MACROURUM, *Baker.*13. N—————SLOANEI, *Baker.*14. N—————VELLEUM, *Baker.*15. N—————SUBFUSCUM, *Baker.*16. N—————PATULUM, *Baker.*17. N—————HIRTUM, *Hook.*18. N—————PUBESCENS, *Desv.*VAR. BREVICULUM, *Jenman.*19. N—————GRISEBACHII, *Baker.*

Adult, *Phalaenoptilus nuttallii* ♂Adult, *Phalaenoptilus nuttallii*Adult, *Phalaenoptilus nuttallii* ♂Adult, *Phalaenoptilus nuttallii* ♂Adult, *Phalaenoptilus nuttallii* ♂Adult, *Phalaenoptilus nuttallii*Adult, *Phalaenoptilus nuttallii* ♂Adult, *Phalaenoptilus nuttallii* ♂





23. NEPHRODIUM—(Continued.)

20. NEPHRODIUM AMPLUM, *Baker.*21. N _____ VILLOSUM, *Presl.*VAR. (POLYPODIUM) SPECTABILE, *Kaulf.*22. N _____ DENTICULATUM, *Hook.*23. N _____ EXCULTUM, *Hook.* *24. N _____ EFFUSUM, *Baker.*25. N _____ SCOLOPENDRIOIDES, *Hook.*26. N _____ INCISUM, *Baker.*27. N _____ UNITUM, *R. Br.*28. N _____ SERRA, *Desv.*29. N _____ AMBOINENSE, *Presl.*

30. N _____ SP.

31. N _____ JAMAICENSE, *Baker.*VAR. ABORTUM, *Jenman.*32. N _____ ASPLENIOIDES, *Baker.* *33. N _____ MOLLE, *Desv.*34. N _____ VENUSTUM, *J. Smith.* *35. N _____ USITATUM, *Jenman.*

Grenada—Mississippi 82

, ~~red~~ ~~yellow~~ ~~orange~~ ~~pink~~ ~~purple~~ ~~blue~~, ~~red~~ ~~yellow~~ ~~orange~~ ~~pink~~ ~~purple~~ ~~blue~~

Acanthococcus quercus L. RAY

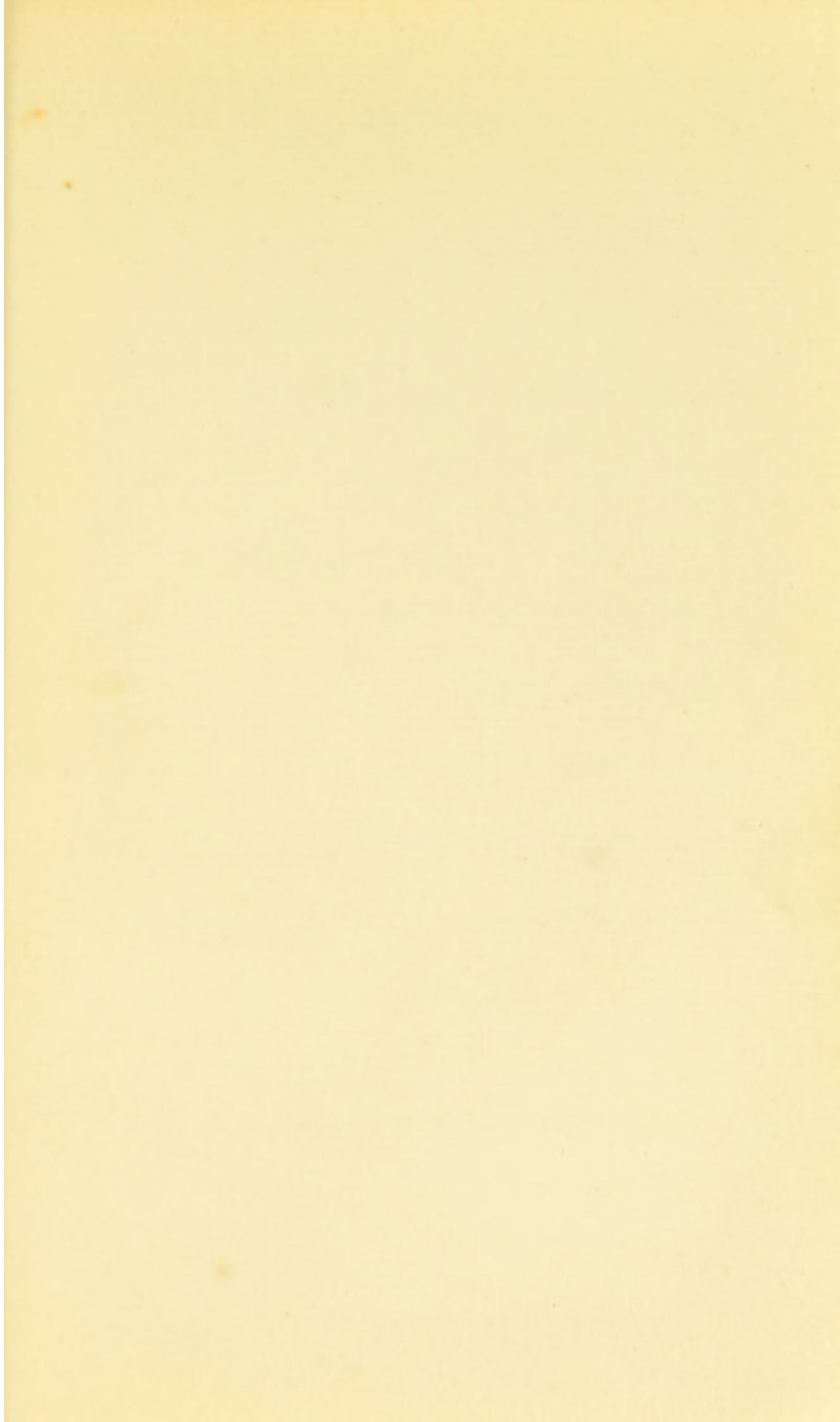
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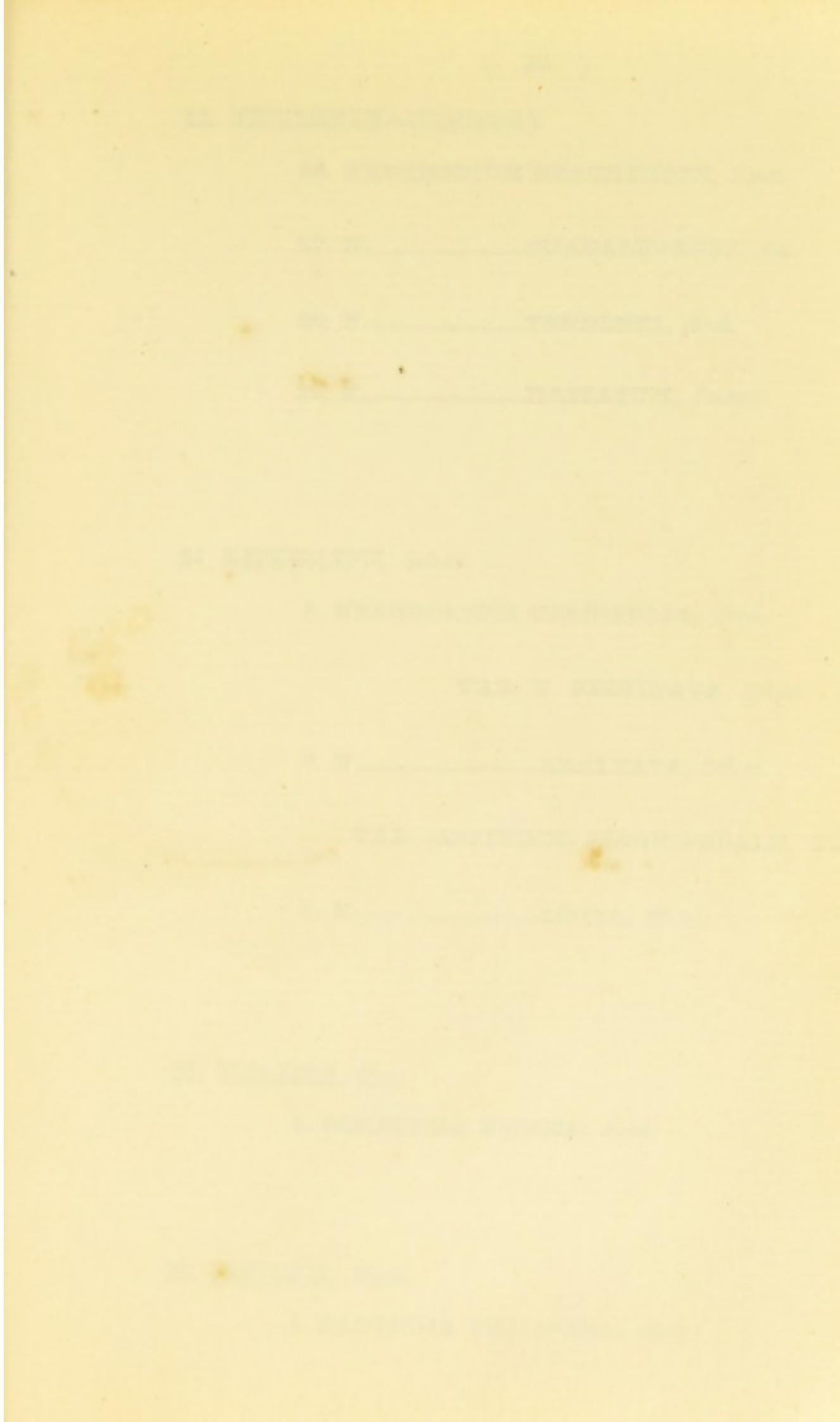
Acanthococcus quercus L. RAY

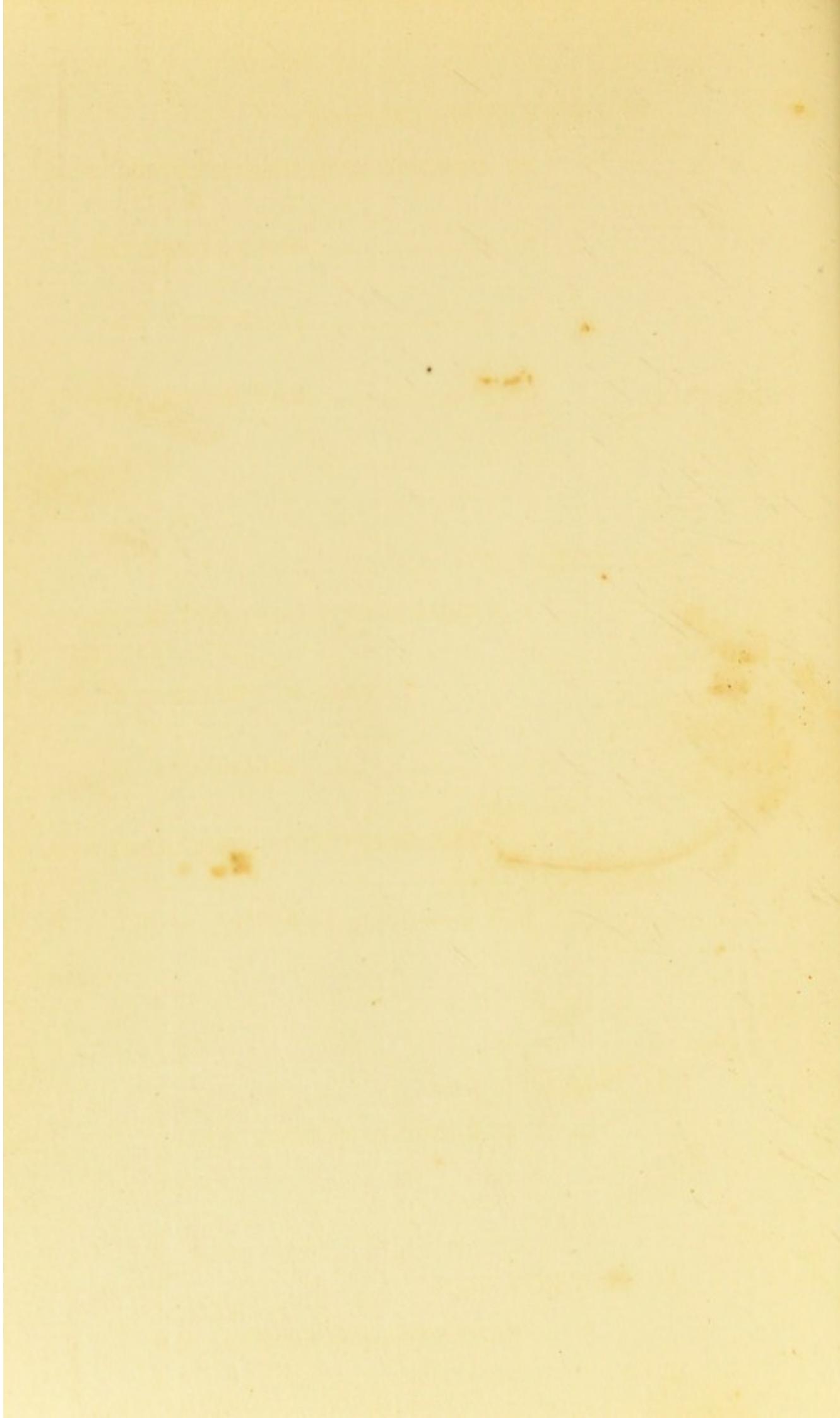
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Acanthococcus quercus L. RAY

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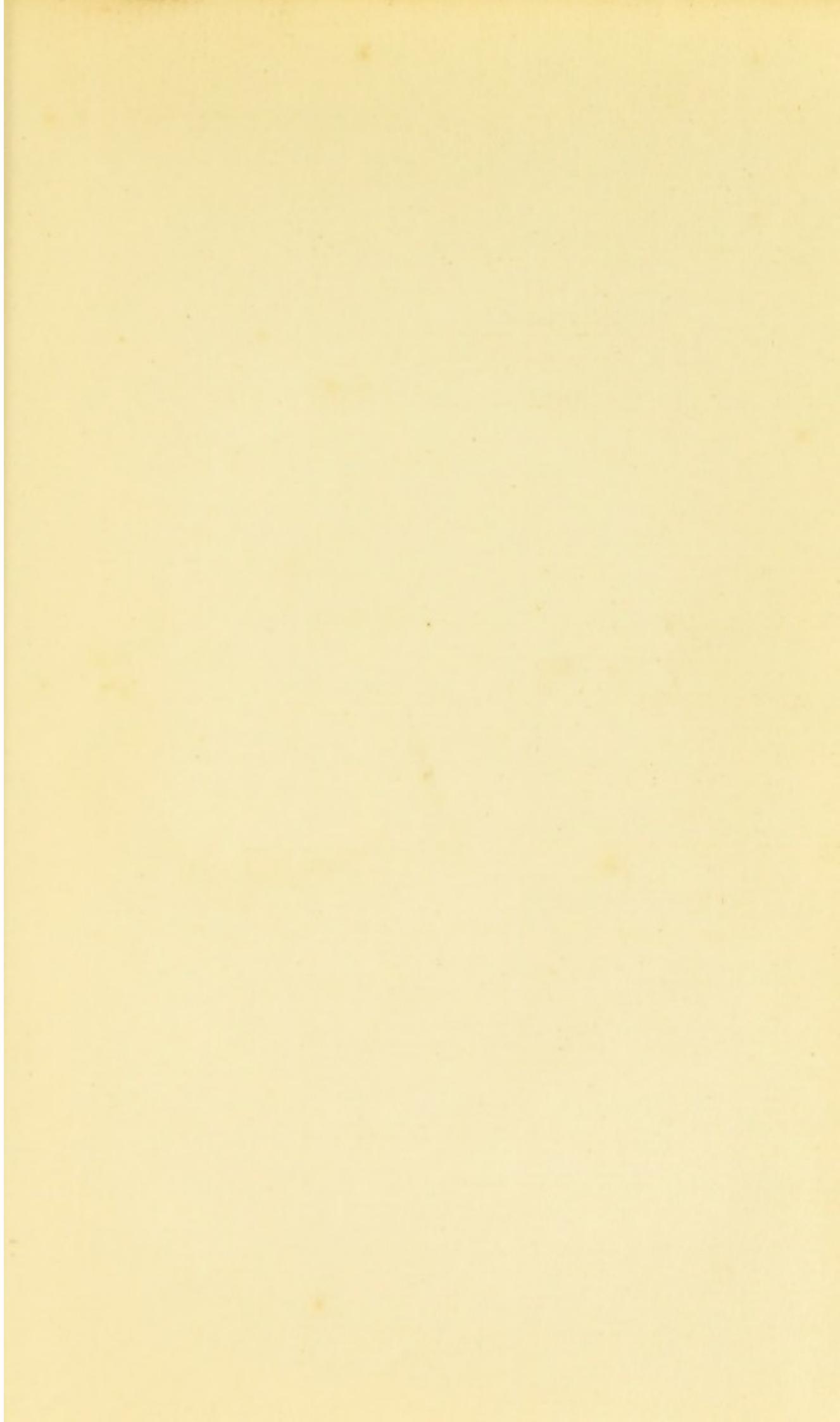


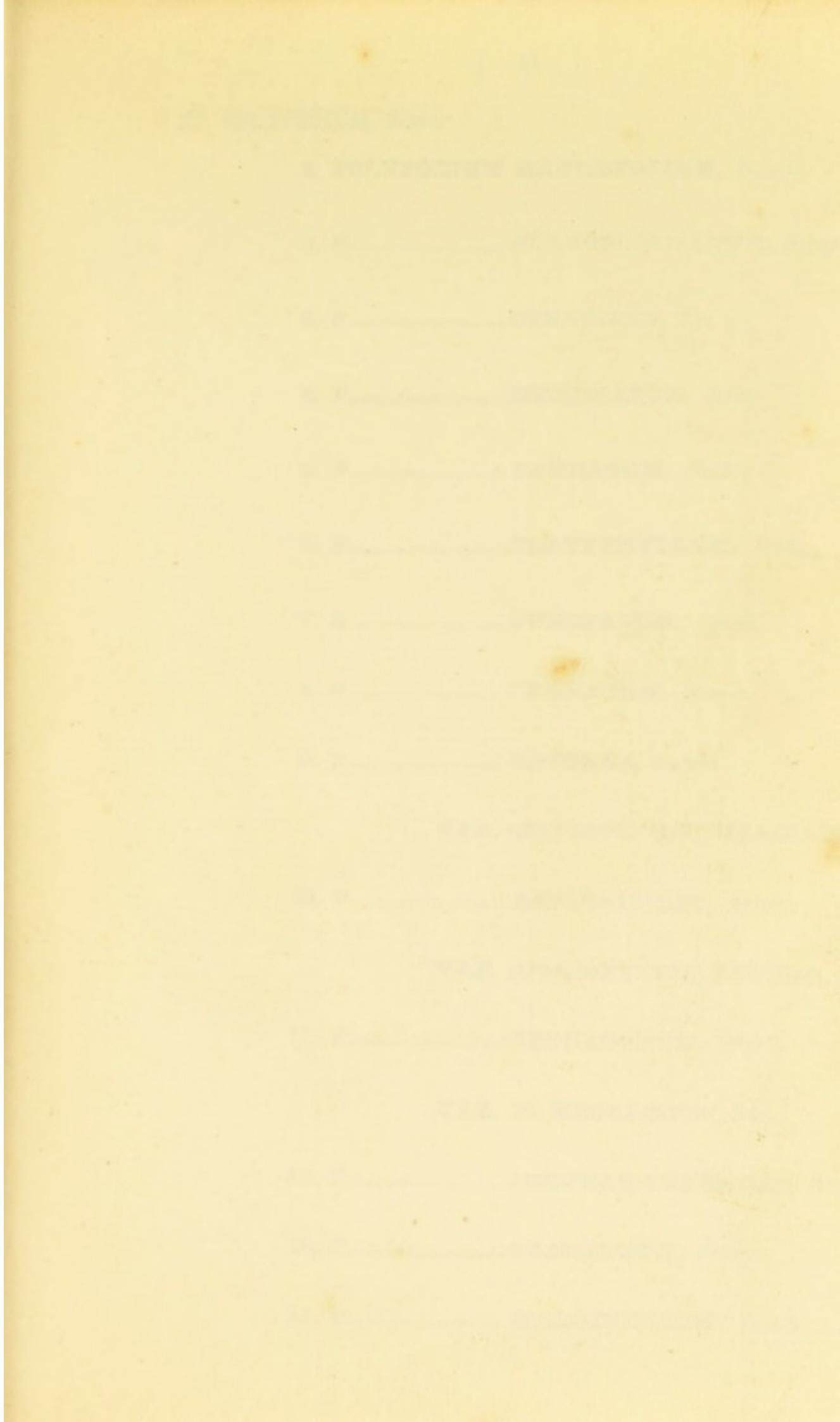




23. NEPHRODIUM—(Continued.)

36. NEPHRODIUM BRACHYODON, *Hook.*37. N _____ GUADALUPENSE, *Fée.*38. N _____ FENDLERI, *Hook.*39. N _____ HASTATUM, *Jenman.*24. NEPHROLEPIS, *Schott.*1. NEPHROLEPIS CORDIFOLIA, *Presl.*VAR. N. PECTINATA, *Schott.*2. N _____ EXALTATA, *Schott.*VAR. (ASPIDIUM) SESQUIPEDALE, *Wi.*3. N _____ ACUTA, *Willd.*25. OLEANDRA, *Cav.*1. OLEANDRA NODOSA, *Presl.*26. FADYENIA, *Hook.*1. FADYENIA PROLIFERA, *Hook.*





27. POLYPODIUM, *Linn.*1. POLYPODIUM HASTÆFOLIUM, *Swartz.*2. P _____ FLAVOPUNCTATUM, *Kaulf.*3. P _____ CTENOIDES, *Fée.*4. P _____ DECUSSATUM, *Linn.*5. P _____ CAUDATUM, *Kaulf.*6. P _____ PLATYPHYLLUM, *Hook.* *7. P _____ PUNCTATUM, *Thunb.*8. P _____ CRENATUM, *Swartz.*9. P _____ REPTANS, *Swartz.*

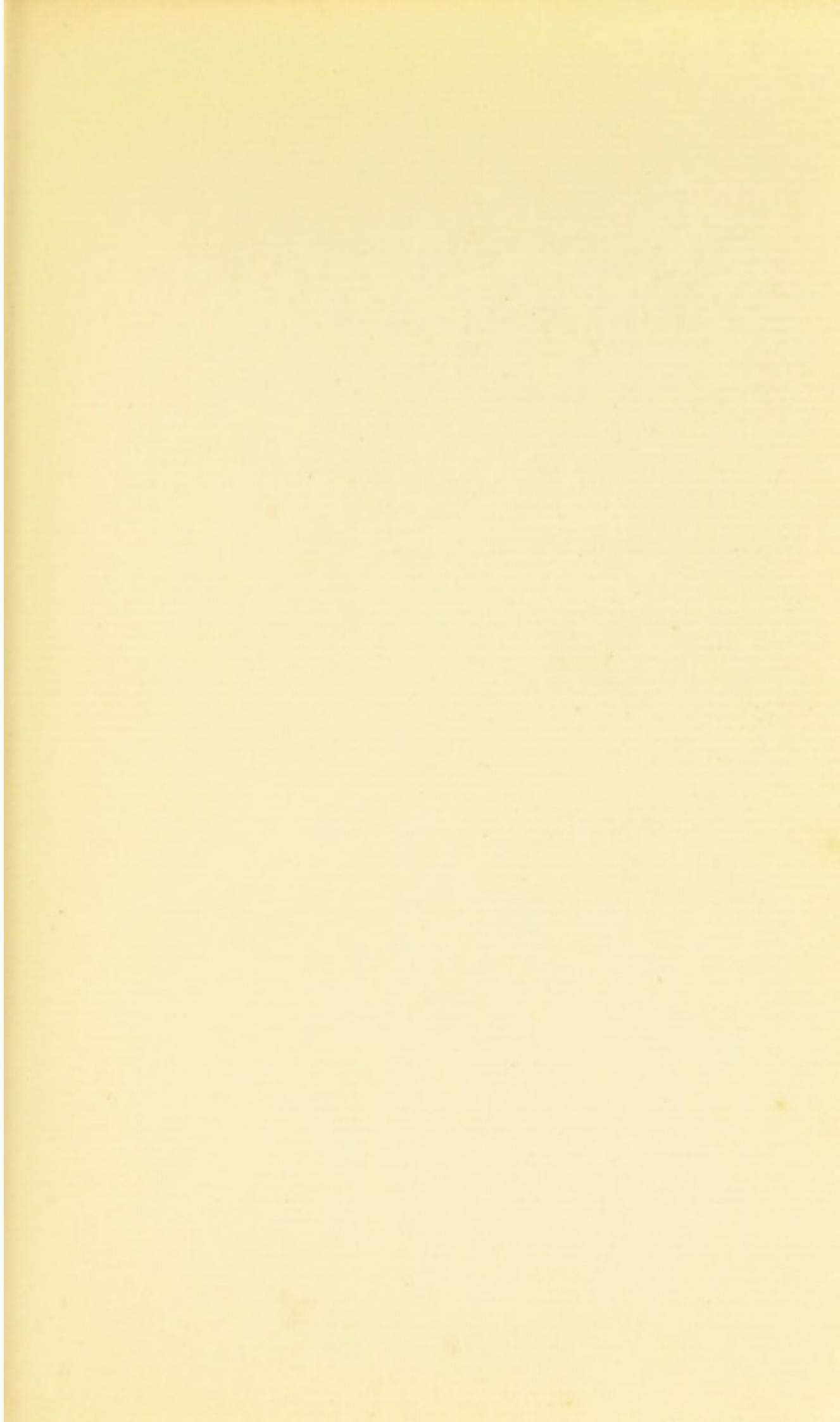
VAR. (GONIOPTERIS,) GRACILIS

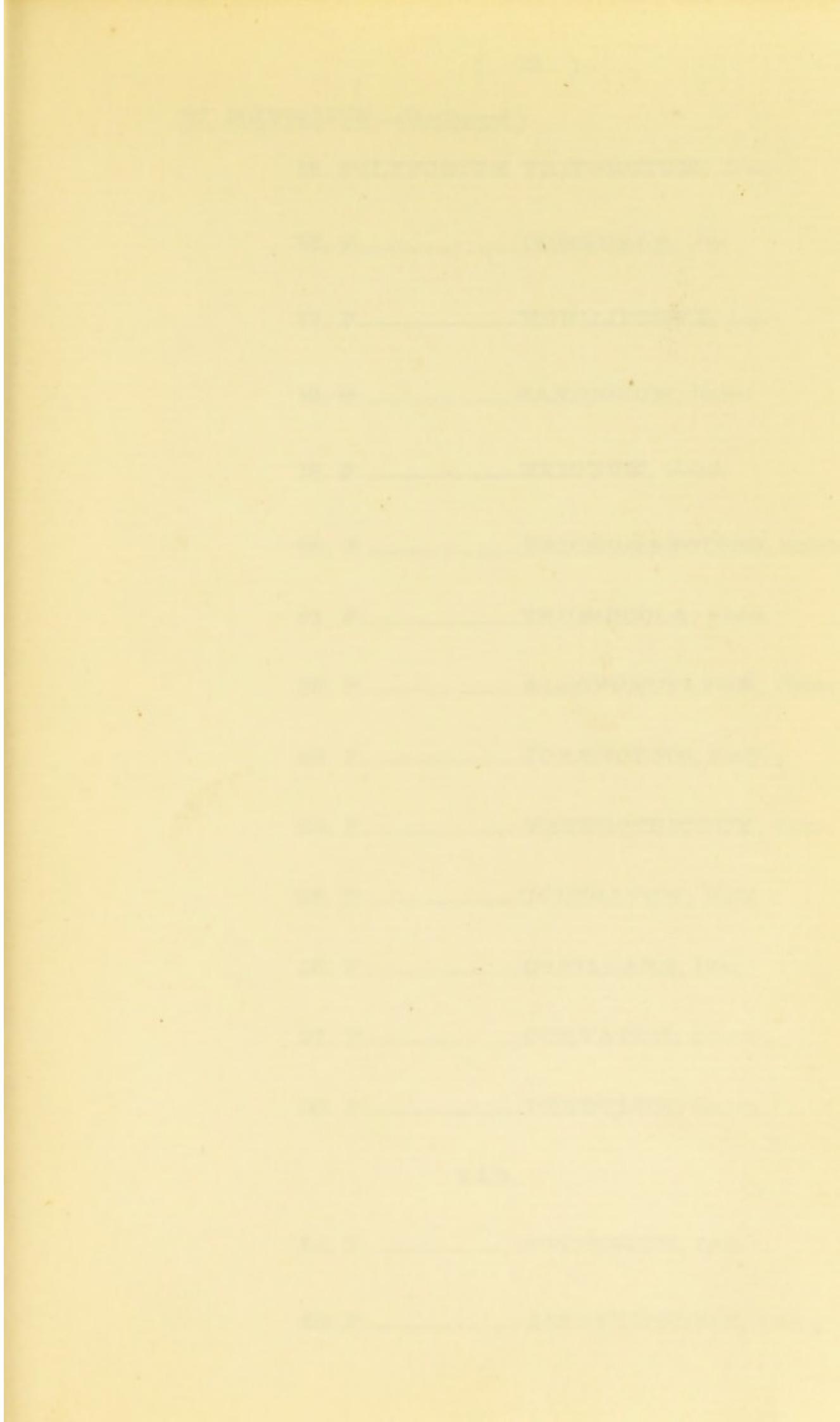
10. P _____ ASPLENIOIDES, *Swartz.*

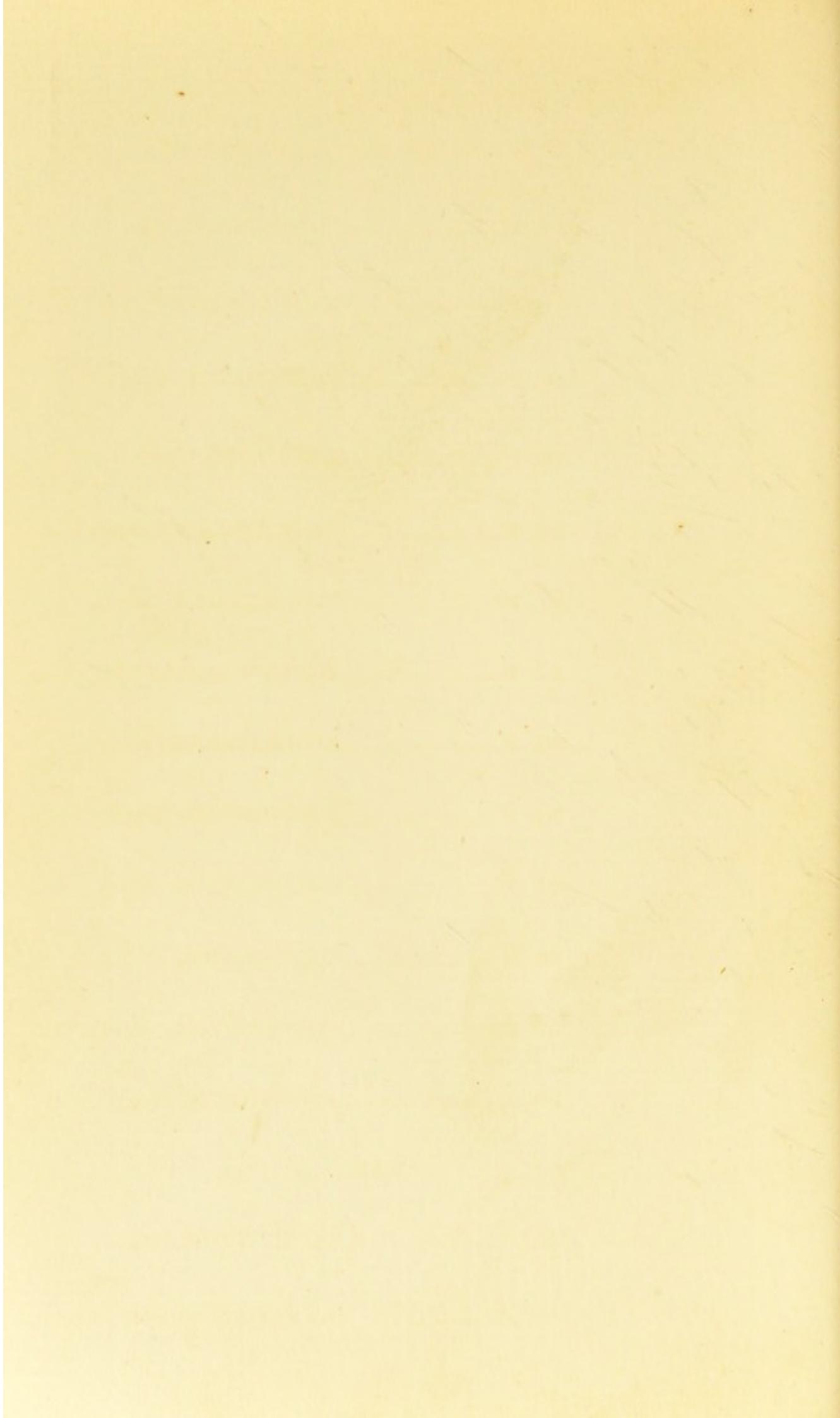
VAR. (GONIOPTERIS) TENERA,

11. P _____ TETRAGONUM, *Swartz.*VAR. P. MEGALODUS, *Schk.*12. P _____ JUNGERMANNIOIDES, *Klo*13. P _____ GRAMINEUM, *Swartz.*14. P _____ MARGINELLUM, *Swartz.*

ANNE BOLEYN'S DOWRY

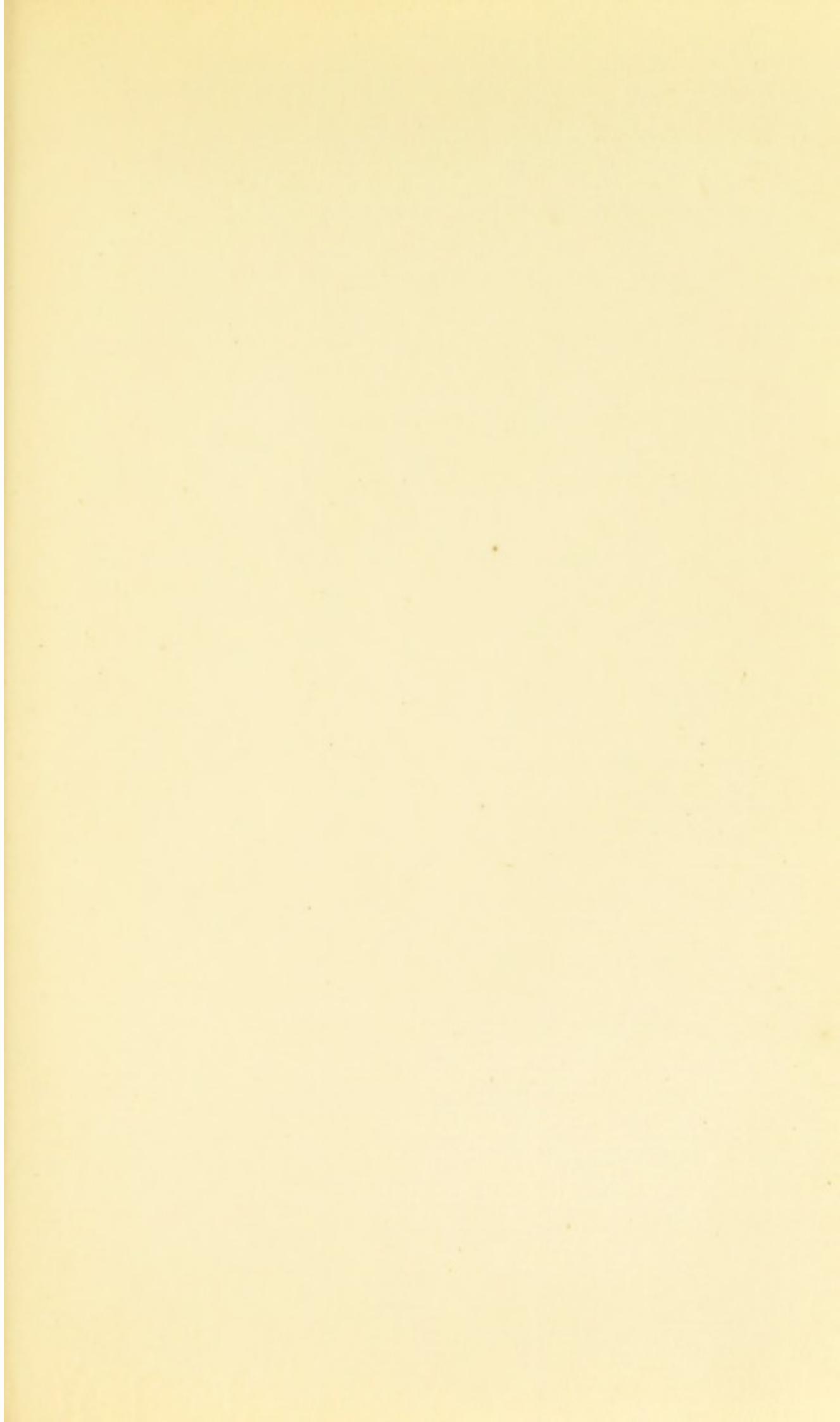


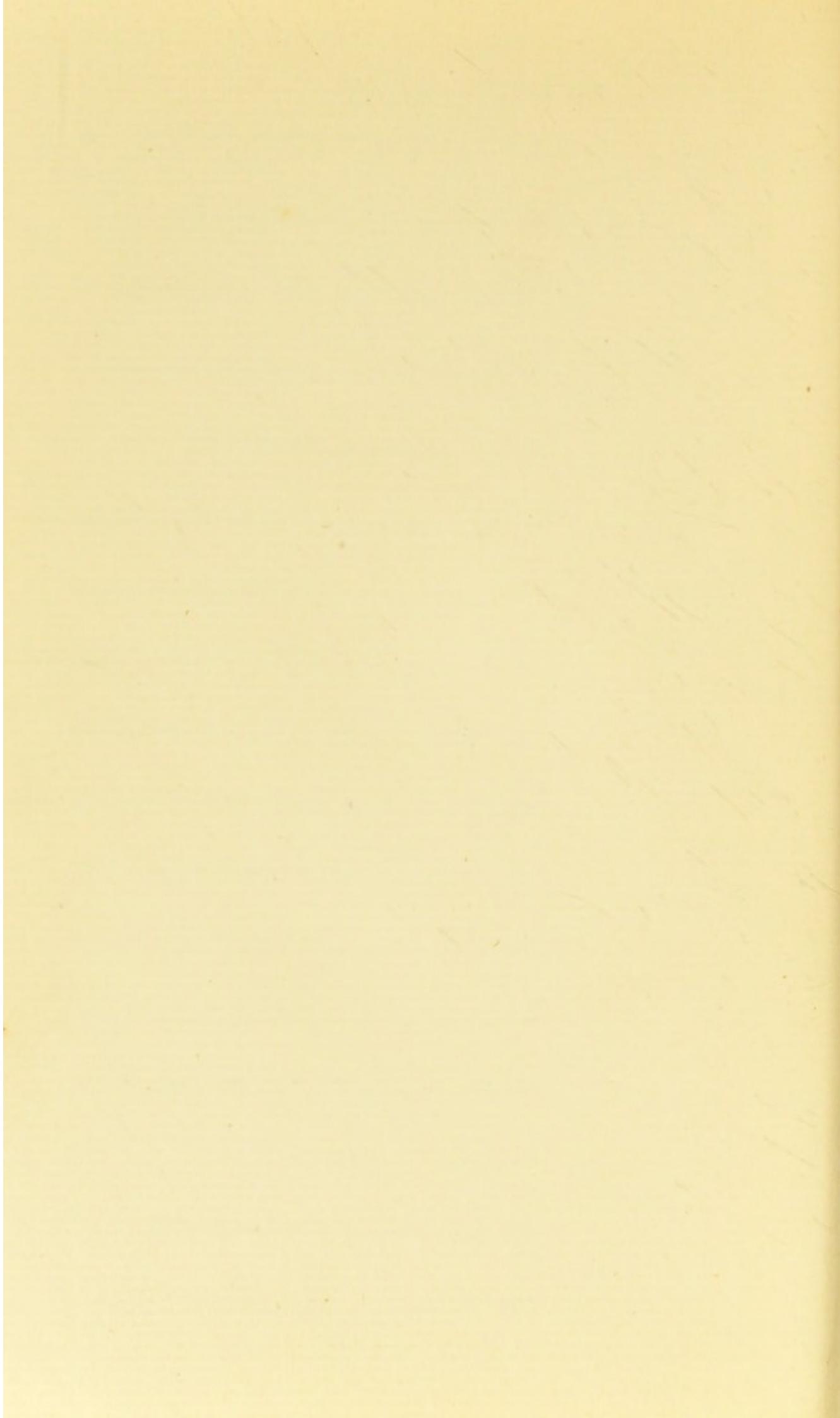


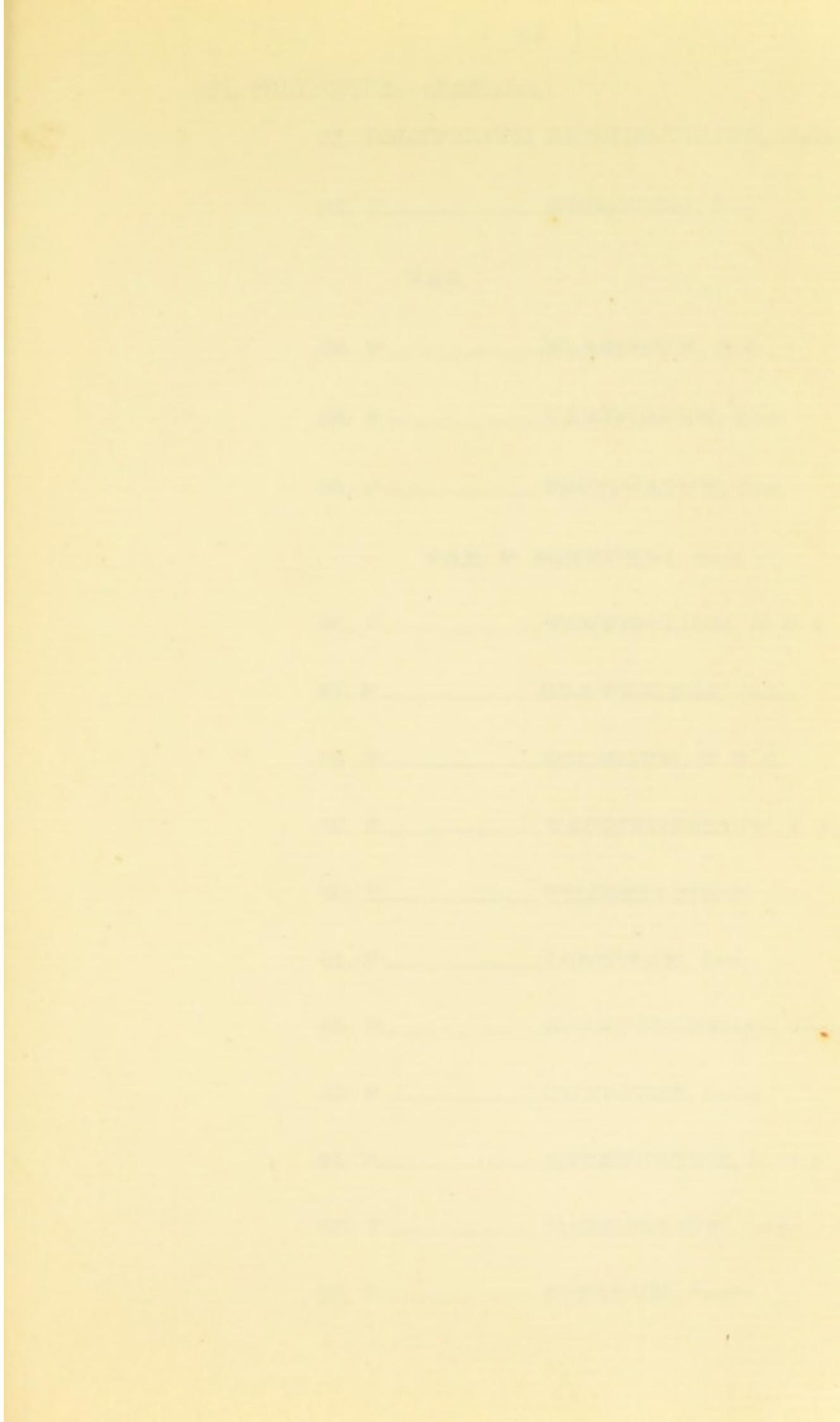


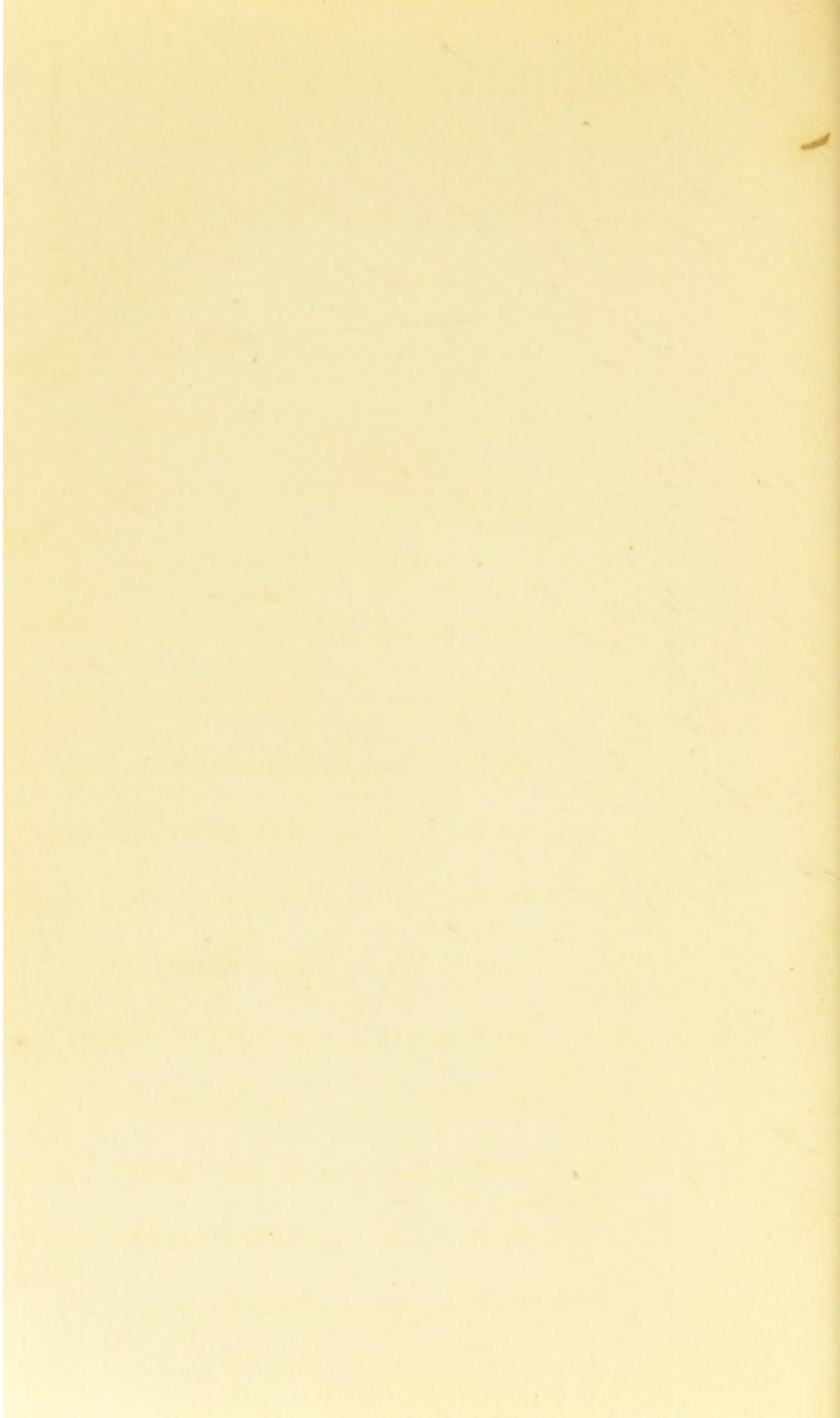
27. POLYPODIUM—(Continued.)

15. POLYPODIUM TRIFURCTUM, *Linn.*16. P_____INÆQUALE, *Fée.*17. P_____MONILIFORME, *Lag.*18. P_____SAXICOLUM, *Baker.*19. P_____EXIGUUM, *Griseb.*20. P_____TRICHOMANOIDES, *Swartz.*21. P_____TRUNCICOLA, *Klotch.*22. P_____ALBOPUNCTATUM, *Baker.*23. P_____JUBÆFORME, *Kaulf.* *24. P_____HETEROTRICHUM, *Baker.*25. P_____CULTRATUM, *Willd.*26. P_____CAPILLARE, *Desv.*27. P_____CURVATUM, *Swartz.* *28. P_____PENDULUM, *Swartz.***VAR.**29. P_____SUSPENSUM, *Linn.*30. P_____ASPLENIFOLIUM, *Linn.* *









27. POLYPODIUM—(Continued.)

31. POLYPODIUM BRUNEO-VIRIDE, *Baker.*32. P_____ RIGESCENS, *Bory.*

VAR.

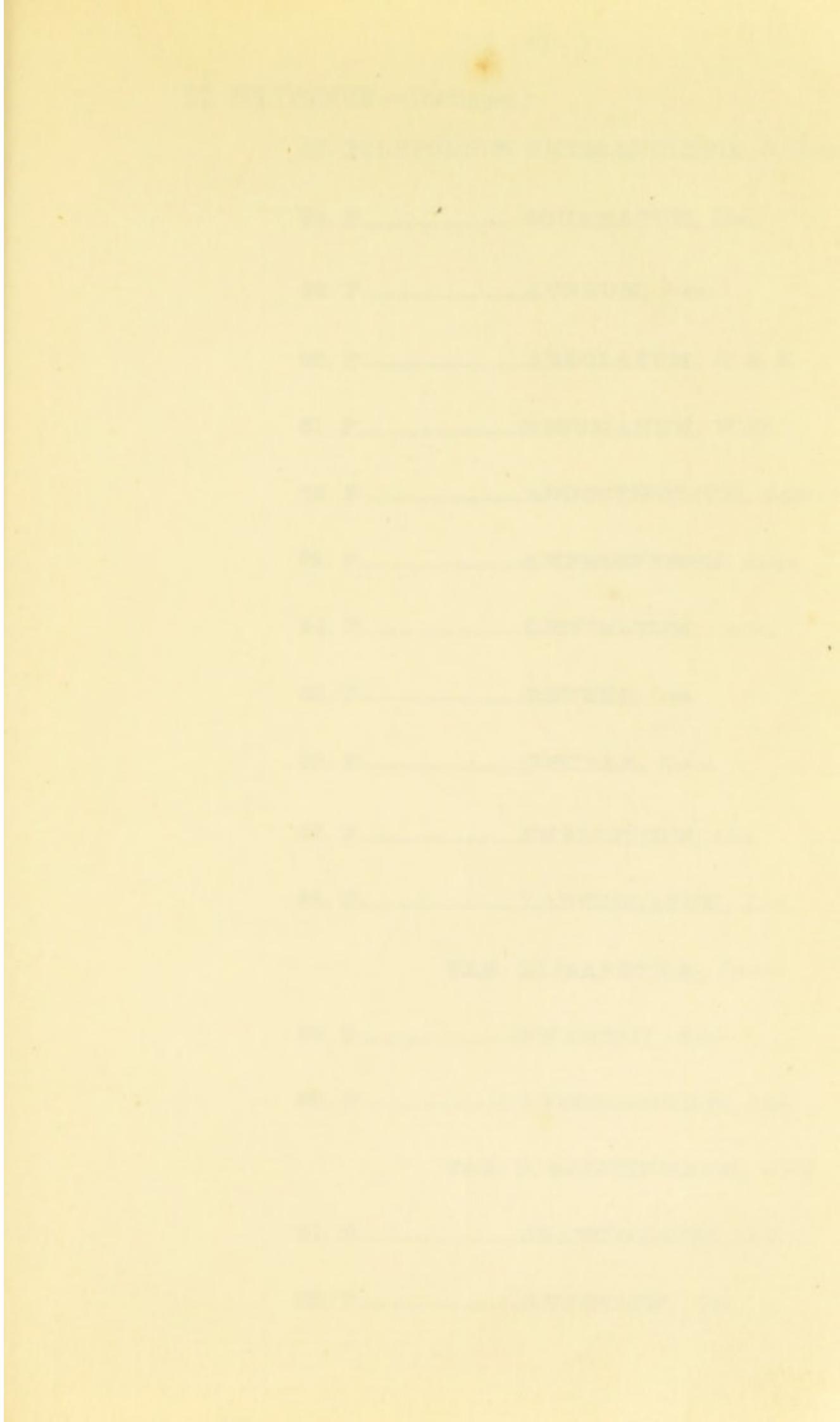
33. P_____ ELASTICUM, *Rich.* *34. P_____ TAXIFOLIUM, *Linn.*35. P_____ PECTINATUM, *Linn.*VAR. P. SCHKUHRI, *Radd.*36. P_____ TENUIFOLIUM, *H. B. K.*37. P_____ GRAVEOLENS, *Baker.*38. P_____ SORORIUM, *H. B. K.*39. P_____ VACCINIIFOLIUM, *L. & F.* *40. P_____ PILOSELLOIDES, *Linn.*41. P_____ LORICEUM, *Linn.*42. P_____ SURRUCUCHENSE, *Hook.*43. P_____ CHNOODES, *Spreng.*44. P_____ ATTENUATUM, *H. B. K.* *45. P_____ NERIIFOLIUM, *Schk.*46. P_____ INCANUM, *Swartz.*

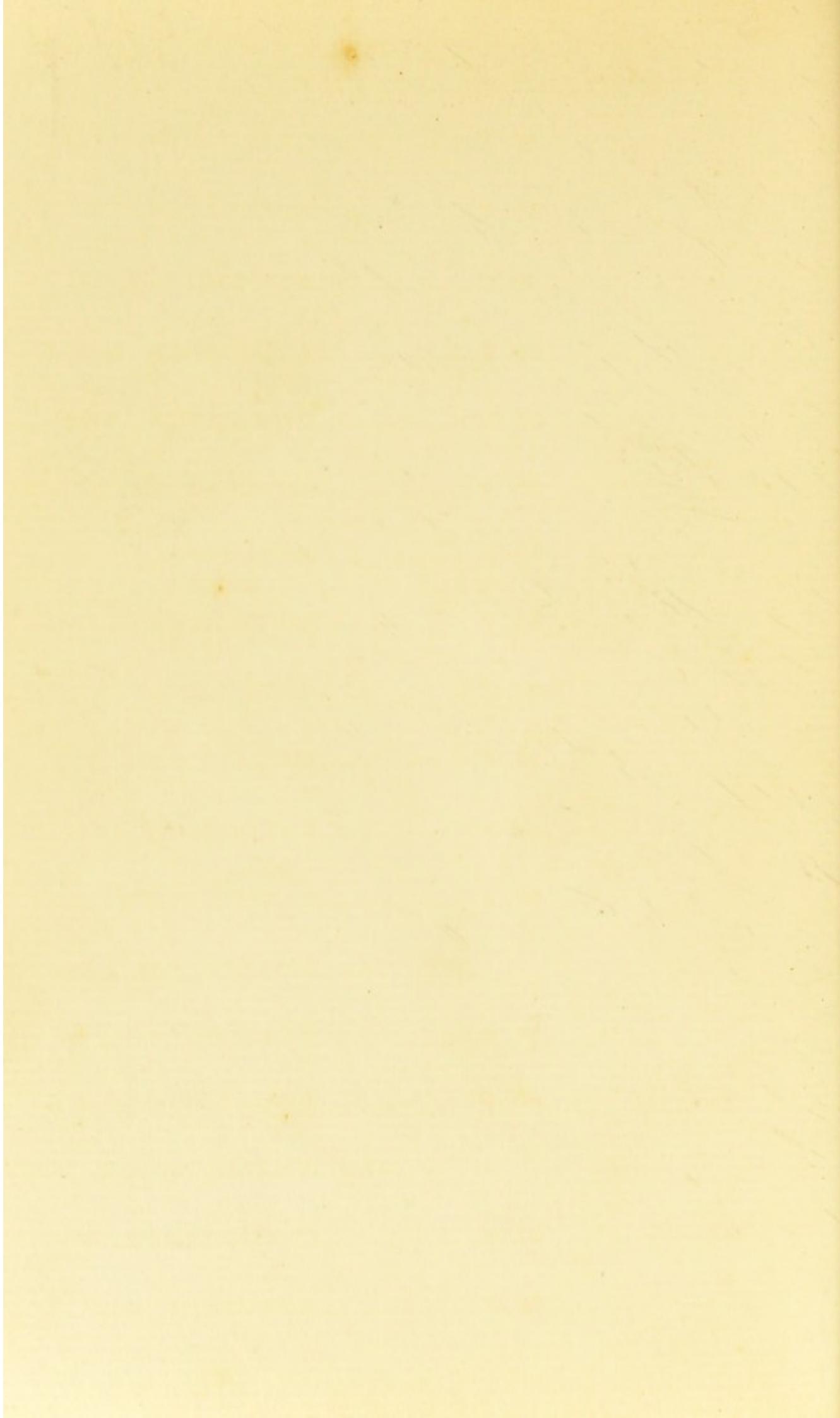
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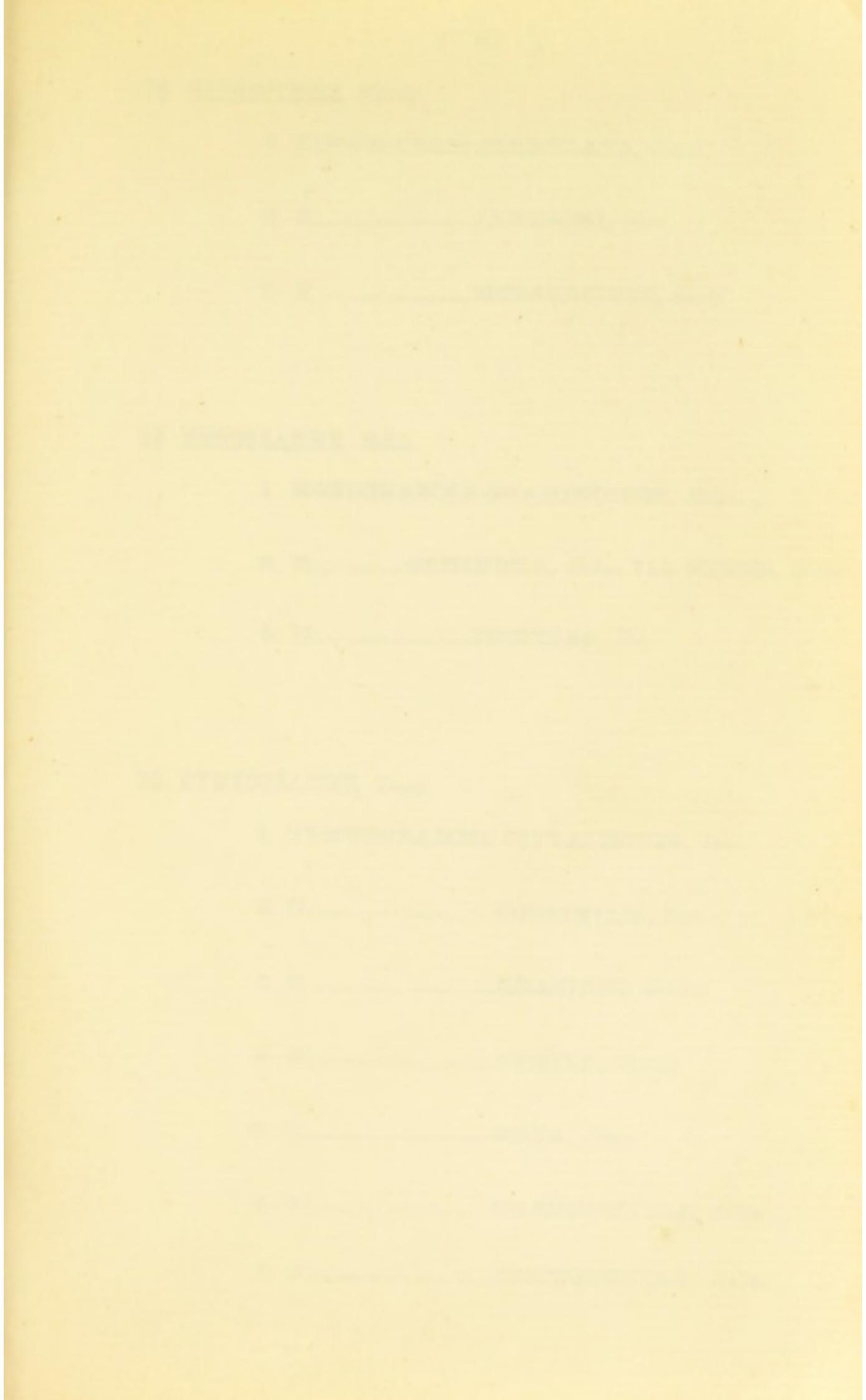




27. POLYPODIUM—(Continued.)

47. POLYPODIUM THYSSANOLEPIS, *R. Brown.*48. P _____ SQUAMATUM, *Linn.*49. P _____ AUREUM, *Linn.*50. P _____ AREOLATUM, *H. B. K.*51. P _____ DECUMANUM, *Willd.*52. P _____ ANGUSTIFOLIUM, *Swartz.*53. P _____ AMPHOSTEMON, *Kunze.*54. P _____ LÆVIGATUM, *Cavan.*55. P _____ REPENS, *Linn.*56. P _____ COSTALE, *Kunze.*57. P _____ PHYLLITIDIS, *Linn.*58. P _____ LANCEOLATUM, *Linn.*VAR. ELISABETHÆ, *Jenman.*59. P _____ SWARTZII, *Baker.*60. P _____ LYCOPODIOIDES, *Linn.*VAR P. SALICIFOLIUM, *Willd.*61. P _____ CRASSIFOLIUM, *Linn.*62. P _____ ANGUSTUM, *Mett.*

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28. XIPHOPTERIS, *Kaulf.*1. **XIPHOPTERIS SERRULATA**, *Kaulf.*2. **X** *JAMESONI*, *Hook.*3. **X** *MYOSUROIDES*, *Kaulf.*29. MONOGRAMME, *Schk.*1. **MONOGRAMME GRAMINOIDES**, *Baker.* *2. **M** *SEMINUDA*, *Baker.* VAR. **MINOR**, *Baker.*3. **M** *IMMERSA*, *Fée.*30. GYMNOGRAMME, *Desv.*1. **GYMNOGRAMME DIPLAZIOIDES**, *Desv.*2. **G** *CONSIMILIS*, *Desv.*3. **G** *GRACILIS*, *Heward.*4. **G** *PUMILA*, *Spreng.*5. **G** *RUFA*, *Desv.*6. **G** *CHÆROPHYLLA*, *Baker.*7. **G** *SCHIZOPHYLLA*, *Baker.*

100

RUDOLPH D. HARRIS

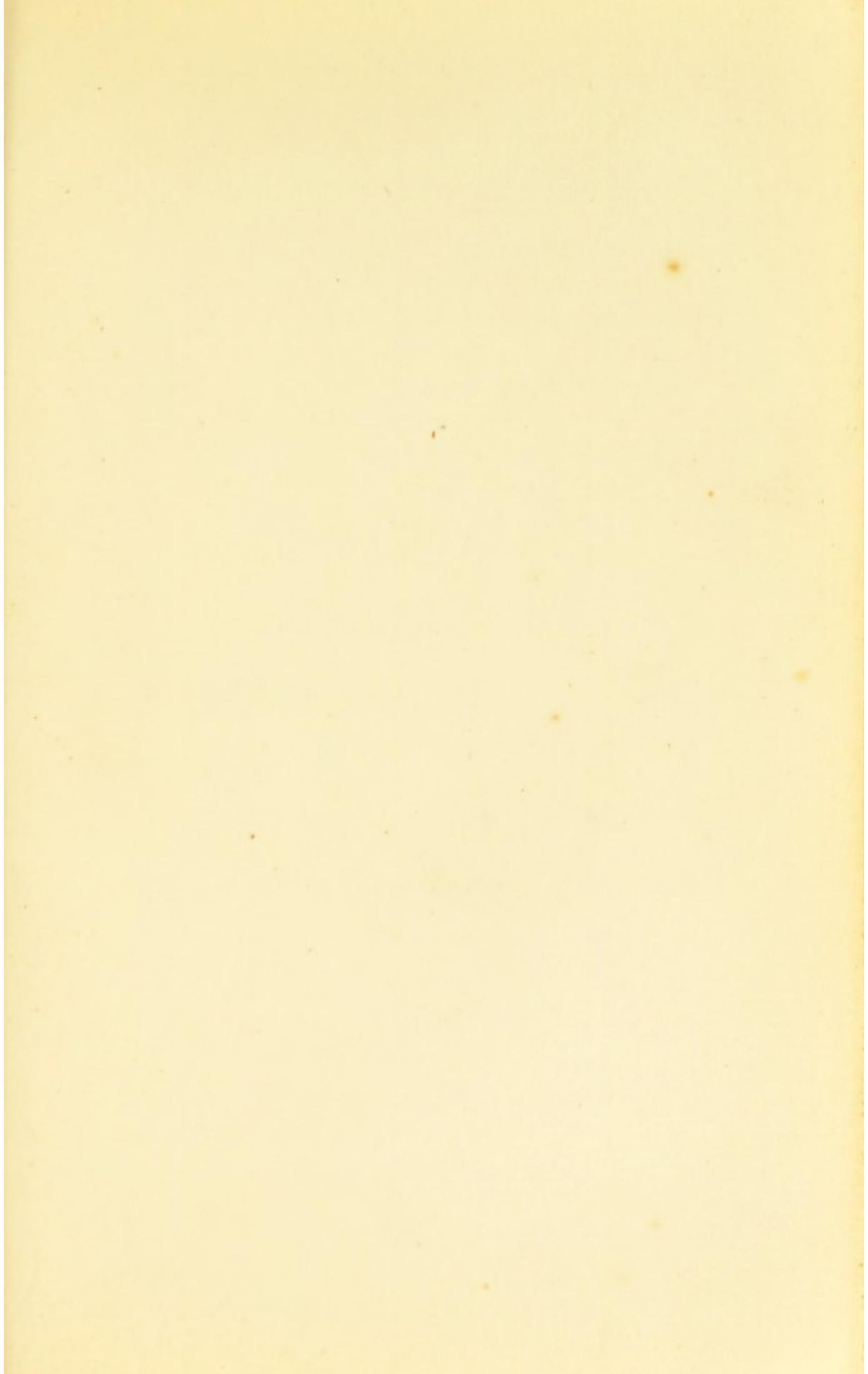
Atmospheric concentrations of
selected greenhouse gases in 1992.

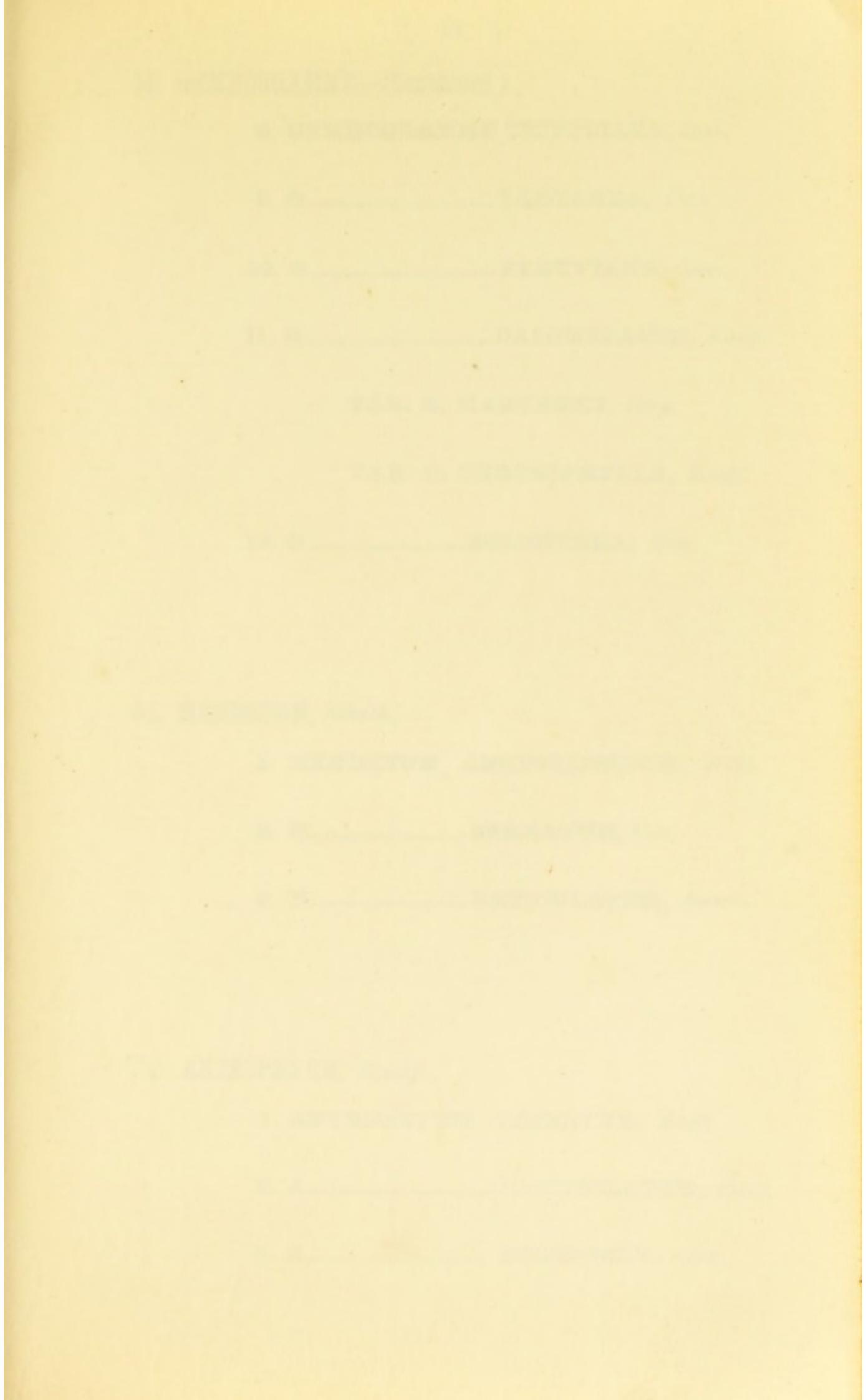
Gas	Concentration	Units
CO ₂	~355 ppm	ppm
CH ₄	~1750 ppb	ppb
N ₂ O	~310 ppb	ppb
CFC-12	~88 ppb	ppb
Ozone	~300 ppb	ppb
SF ₆	~0.2 ppb	ppb

Atmospheric concentration (ppm) vs.
atmospheric lifetime (years).

(Note: The atmospheric lifetime is defined as the time required for one-half of the original quantity of a gas to be removed from the atmosphere. The following values are approximate.)

Gas	Lifetime
CO ₂	500 years
CH ₄	12 years
N ₂ O	120 years
CFC-12	30 years
Ozone	10 years
SF ₆	3000 years





30. GYMNOGRAMME—(Continued.)

8. GYMNOGRAMME TRIFOLIATA, Desv.

9. G_____TARTAREA, Desv.

10. G_____PERUVIANA, Desv.

11. G_____CALOMELANOS, Kaulf.

VAR. G. MARTENSII, Bory.

VAR. G. CHRYSOPHYLLA, Kaulf.

12. G_____SULPHUREA, Desv.

31. MENISCIUM, Schreb.

1. MENISCIUM ANGUSTIFOLIUM, Willd.

2. M_____SERRATUM, Cav.

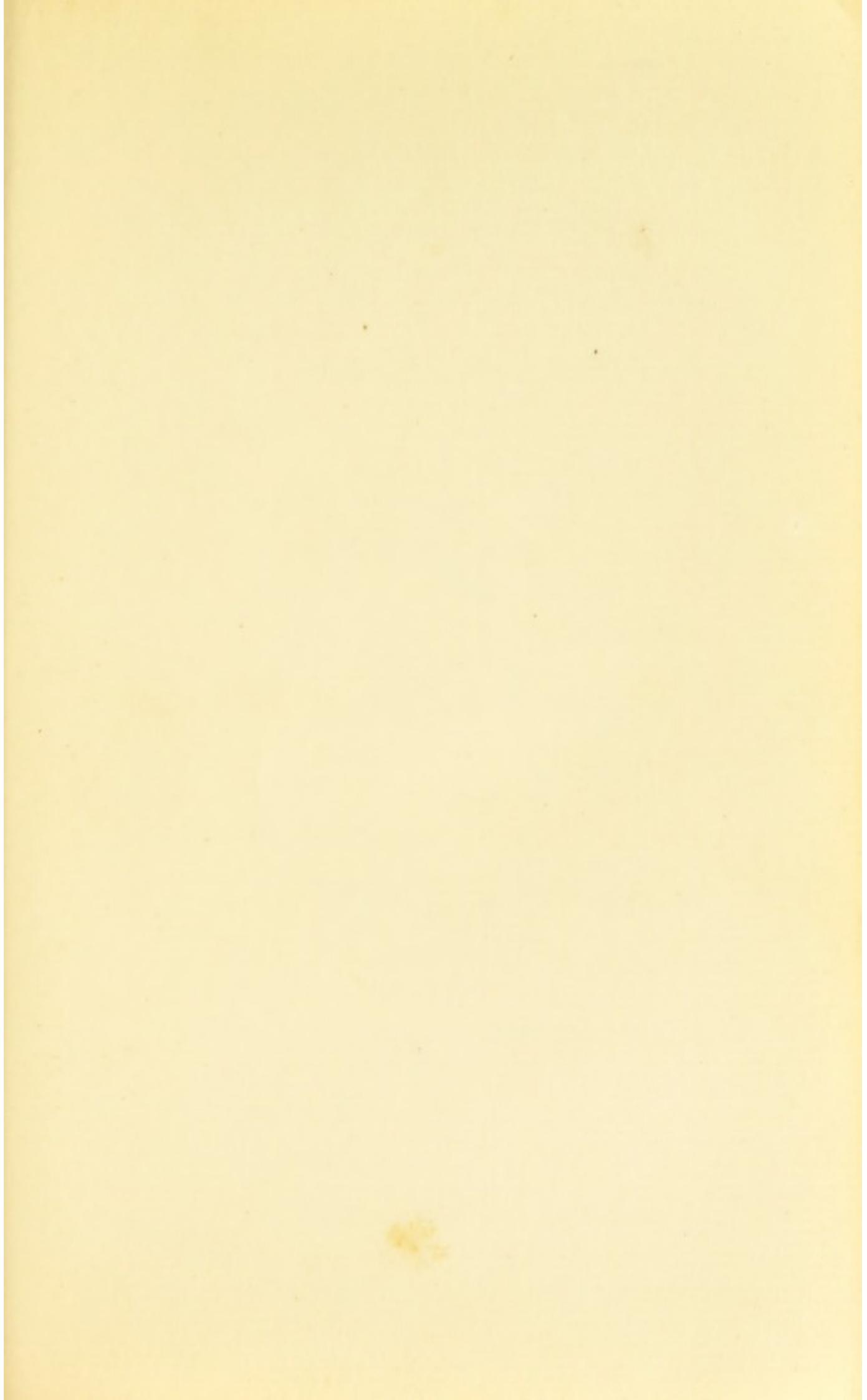
3. M_____RETICULATUM, Swartz.

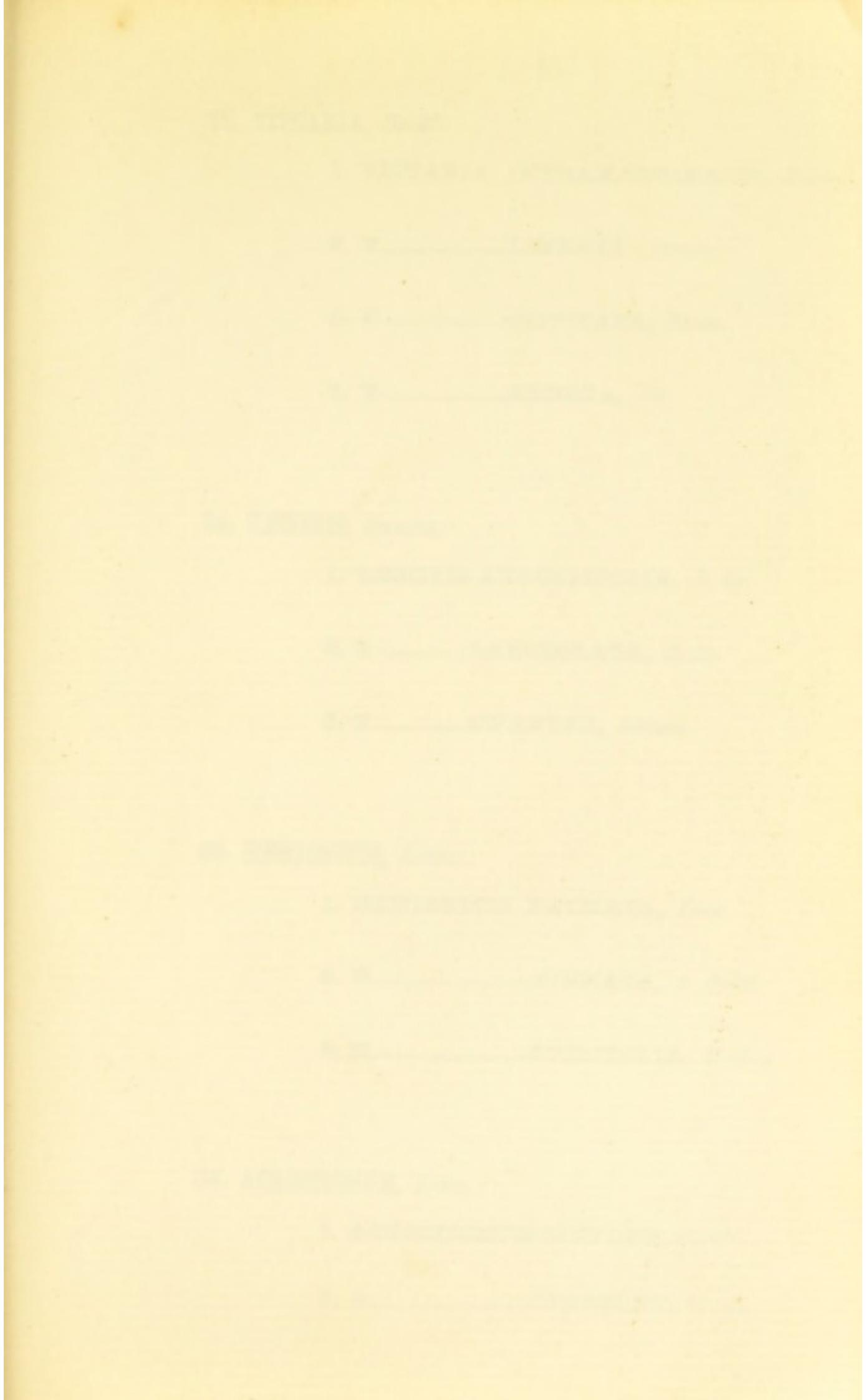
33. ANTROPHYUM, Kaulf.

1. ANTROPHYUM LINEATUM, Kaulf.

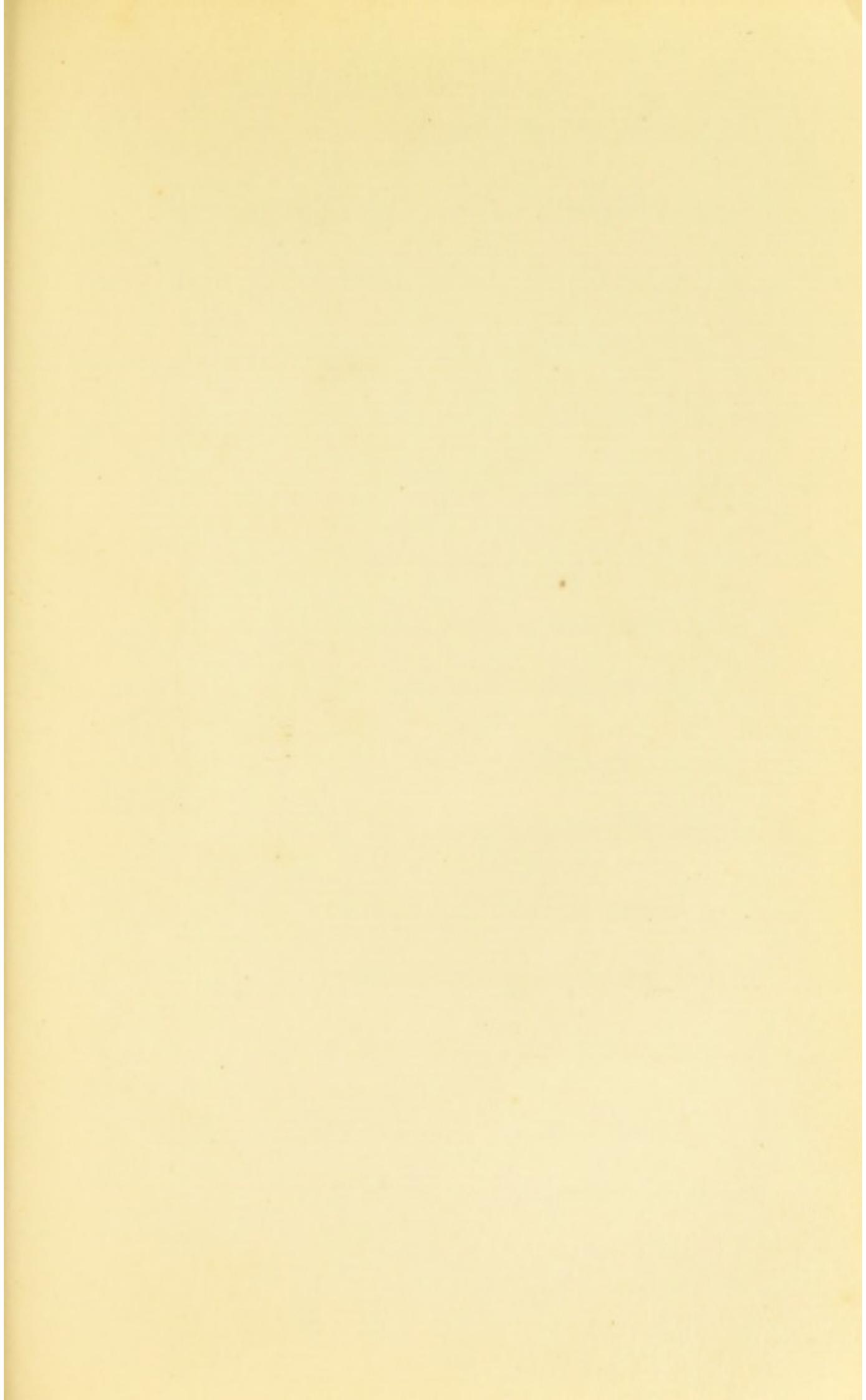
2. A_____LANCEOLATUM, Kaulf.

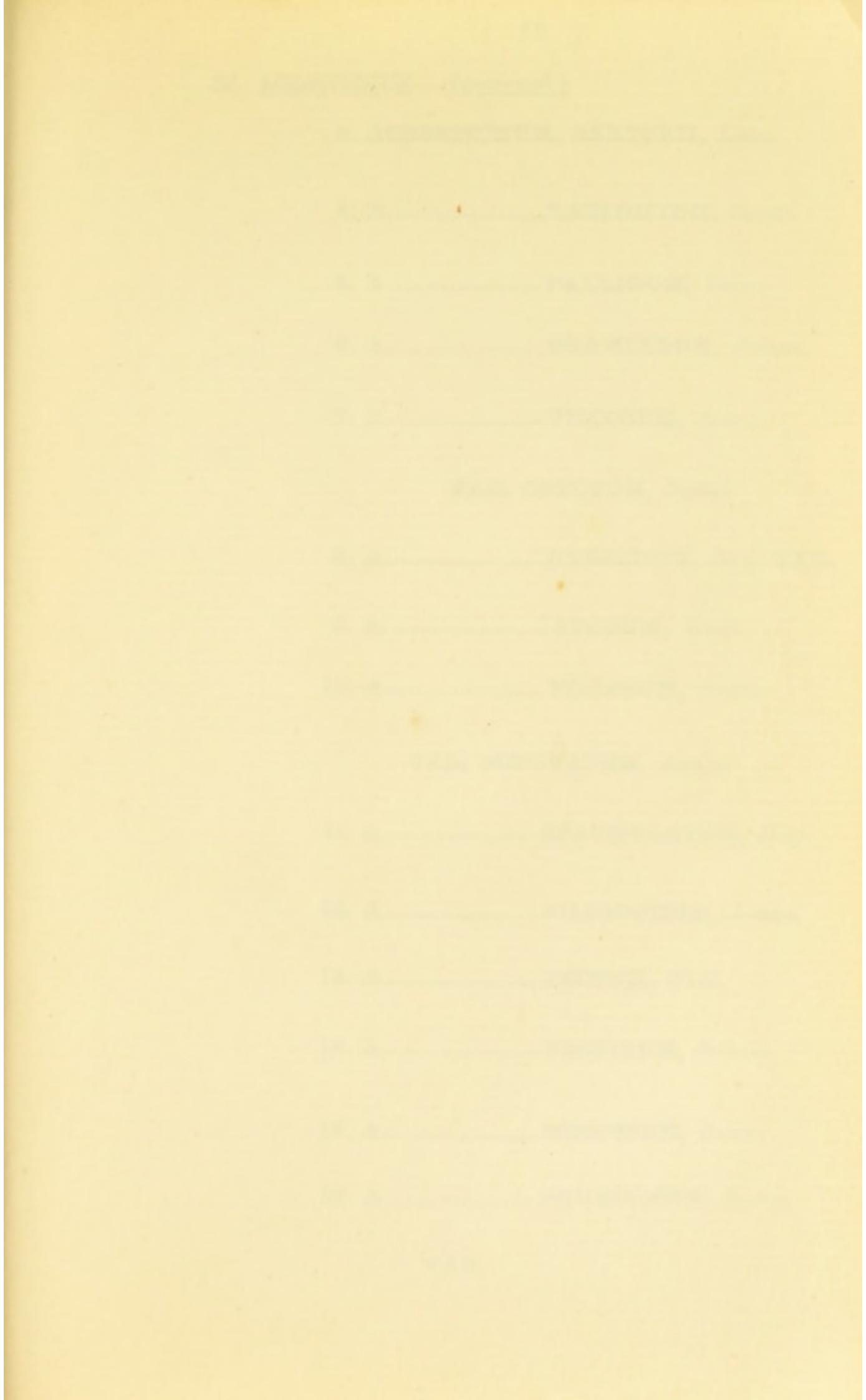
3. A_____SUBSESSILE, Kunze.





33. VITTARIA, *Smith.*1. VITTARIA INTRAMARGINALIS, *Baker.*2. V_____LINEATA, *Swartz.*3. V_____STIPITATA, *Kunze.*4. V_____REMOTA, *Fée.*34. TÆNITIS, *Swartz.*1. TÆNITIS ANGUSTIFOLIA, *R. Br.*2. T_____LANCEOLATA, *R. Br.*3. T_____SWARTZII, *Jenman.*35. HEMIONITIS, *Linn.*1. HEMIONITIS PALMATA, *Linn.*2. H_____PINNATA, *J. Smith.*3. H_____CITRIFOLIA, *Hook. **36. ACROSTICHUM, *Linn.*1. ACROSTICHUM SIMPLEX, *Swartz.*2. A_____CONFORME, *Swartz.*

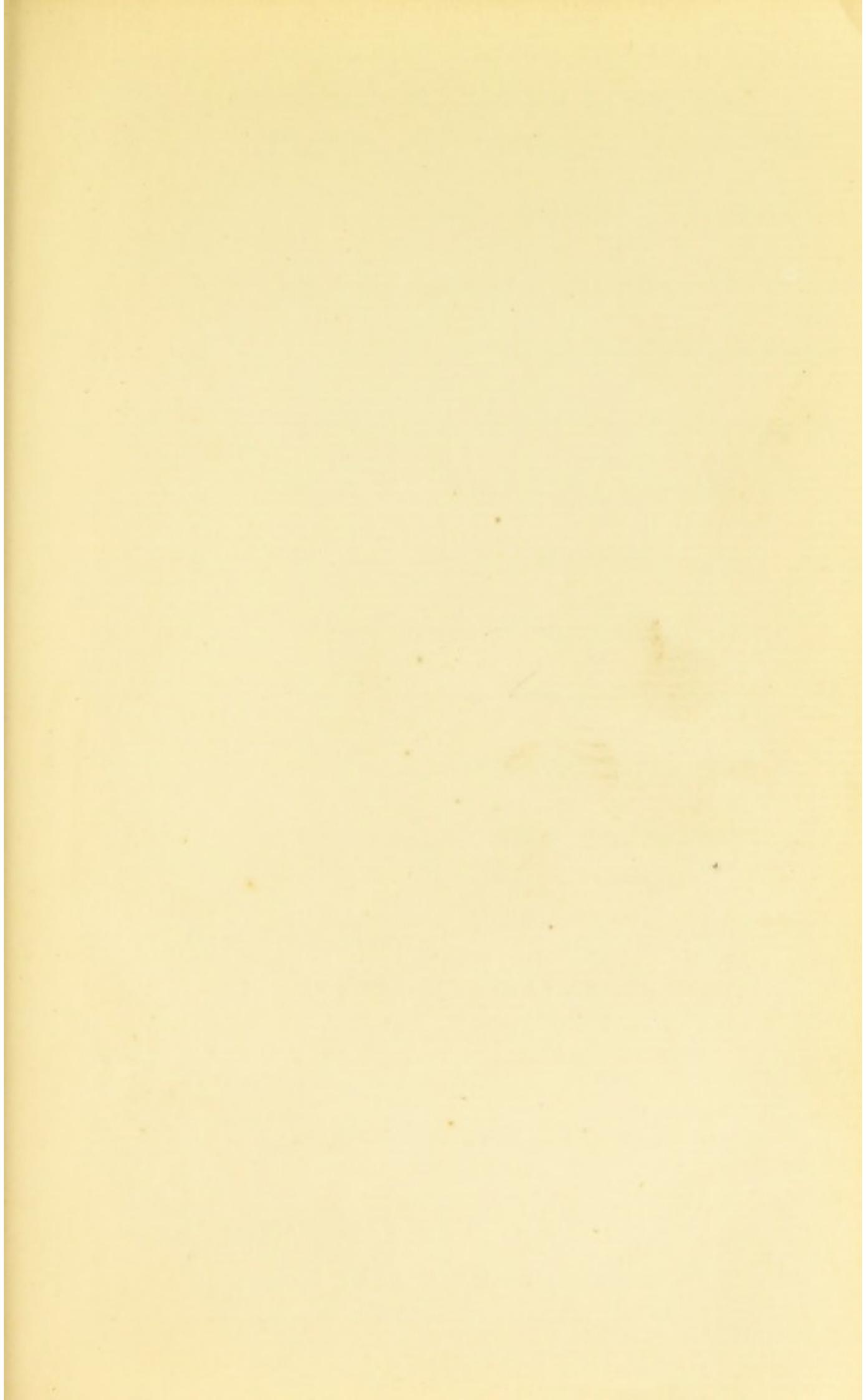


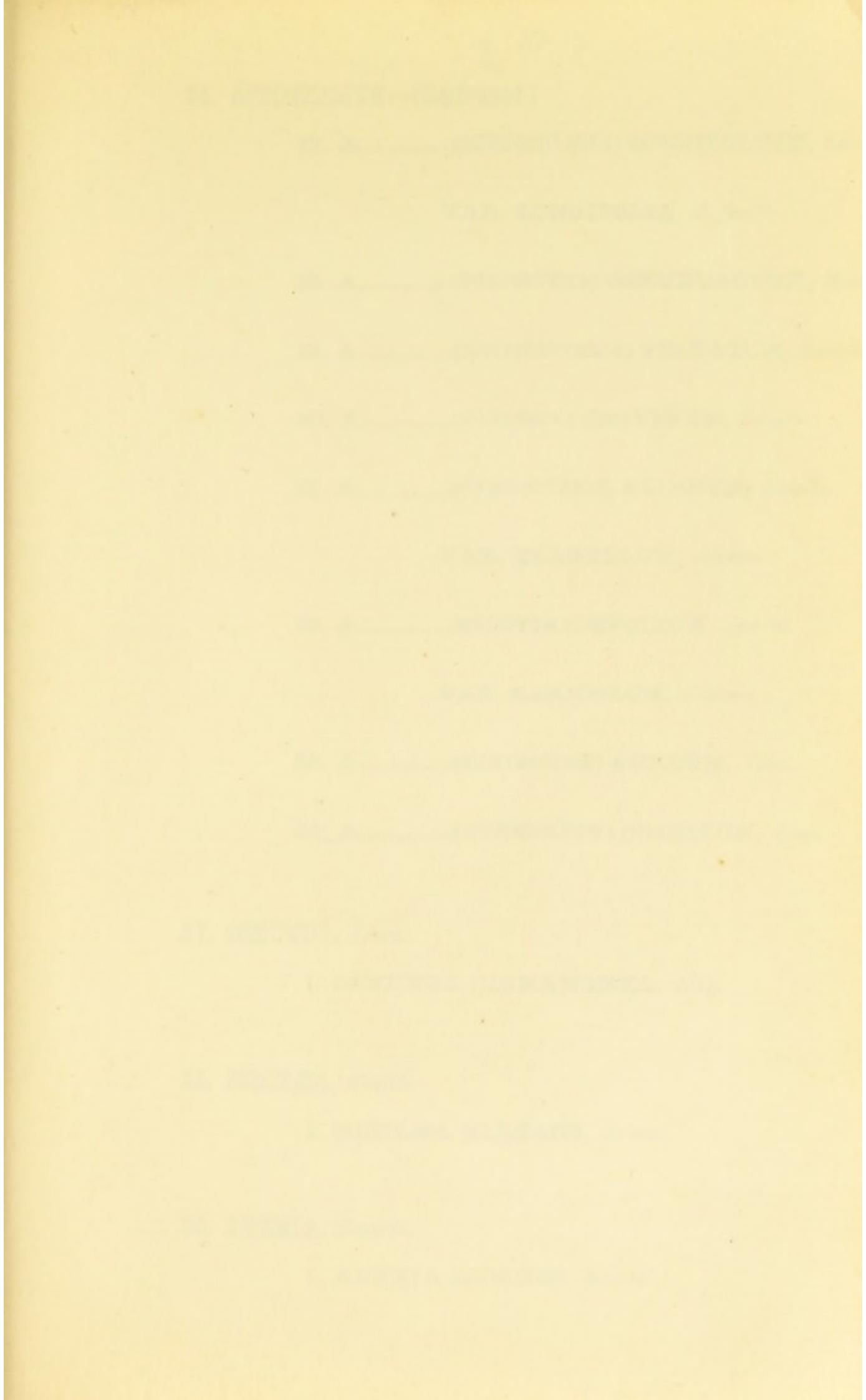


36. ACROSTICHUM—(Continued.)

3. ACROSTICHUM, SARTORII, *Liebm.*4. A——LATIFOLIUM, *Swartz.*5. A——PALLIDUM, *Baker.*6. A——GRAMINEUM, *Jenman.*7. A——VISCOSUM, *Swartz.*VAR. OBTUSUM, *Jenman.*8. A——HYBRIDUM, *Bory.* VAR.9. A——APODUM, *Kaulf.*10. A——VILLOSUM, *Swartz.*VAR. SUBOVATUM, *Jenman.*11. A——SPATHULATUM, *Bory.*12. A——SILIQUOIDES, *Jenman.*13. A——TECTUM, *Willd.*14. A——VESTITUM, *Schlecht.*15. A——MUSCOSUM, *Swartz.*16. A——SQUAMOSUM, *Swartz.*

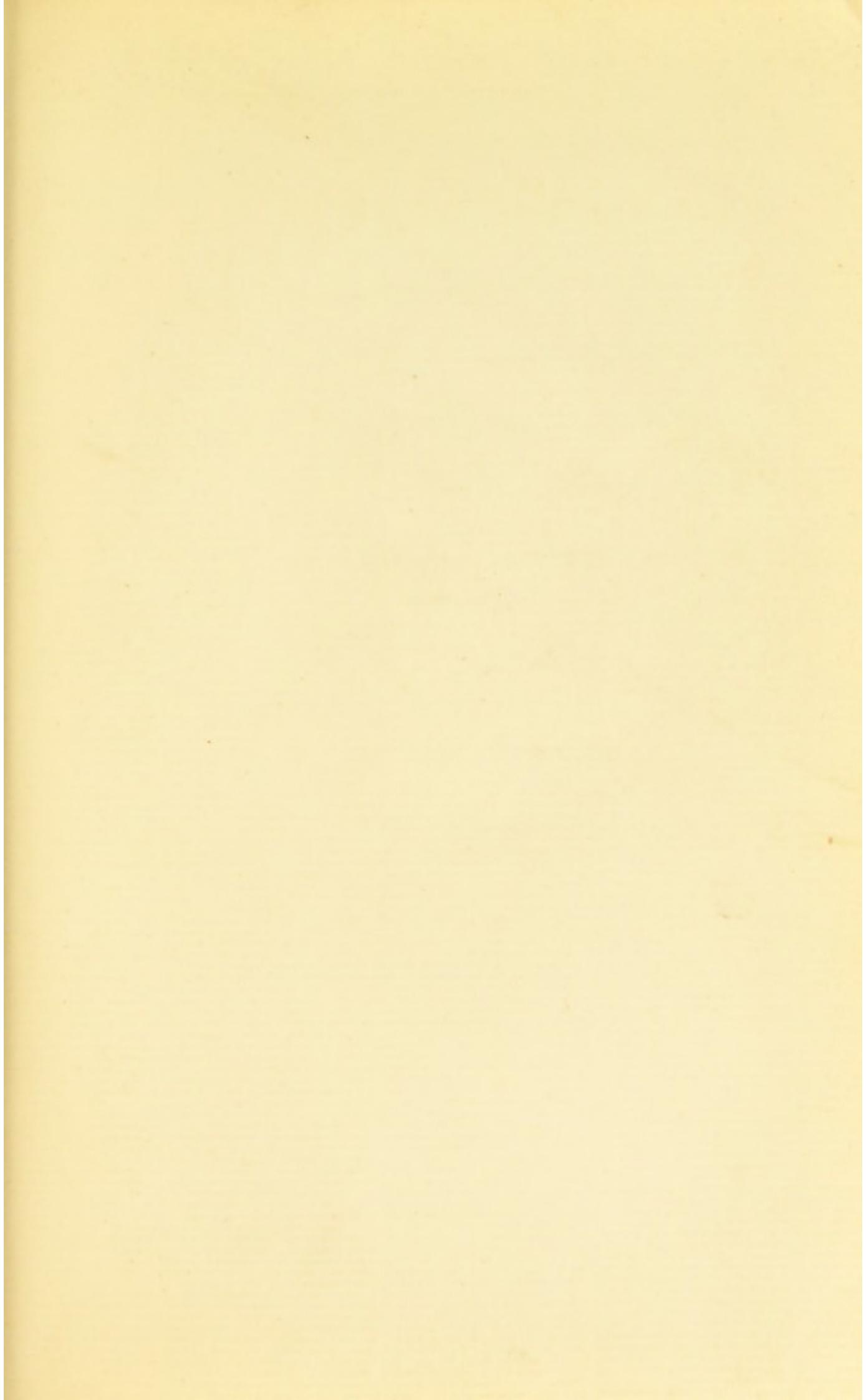
VAR.

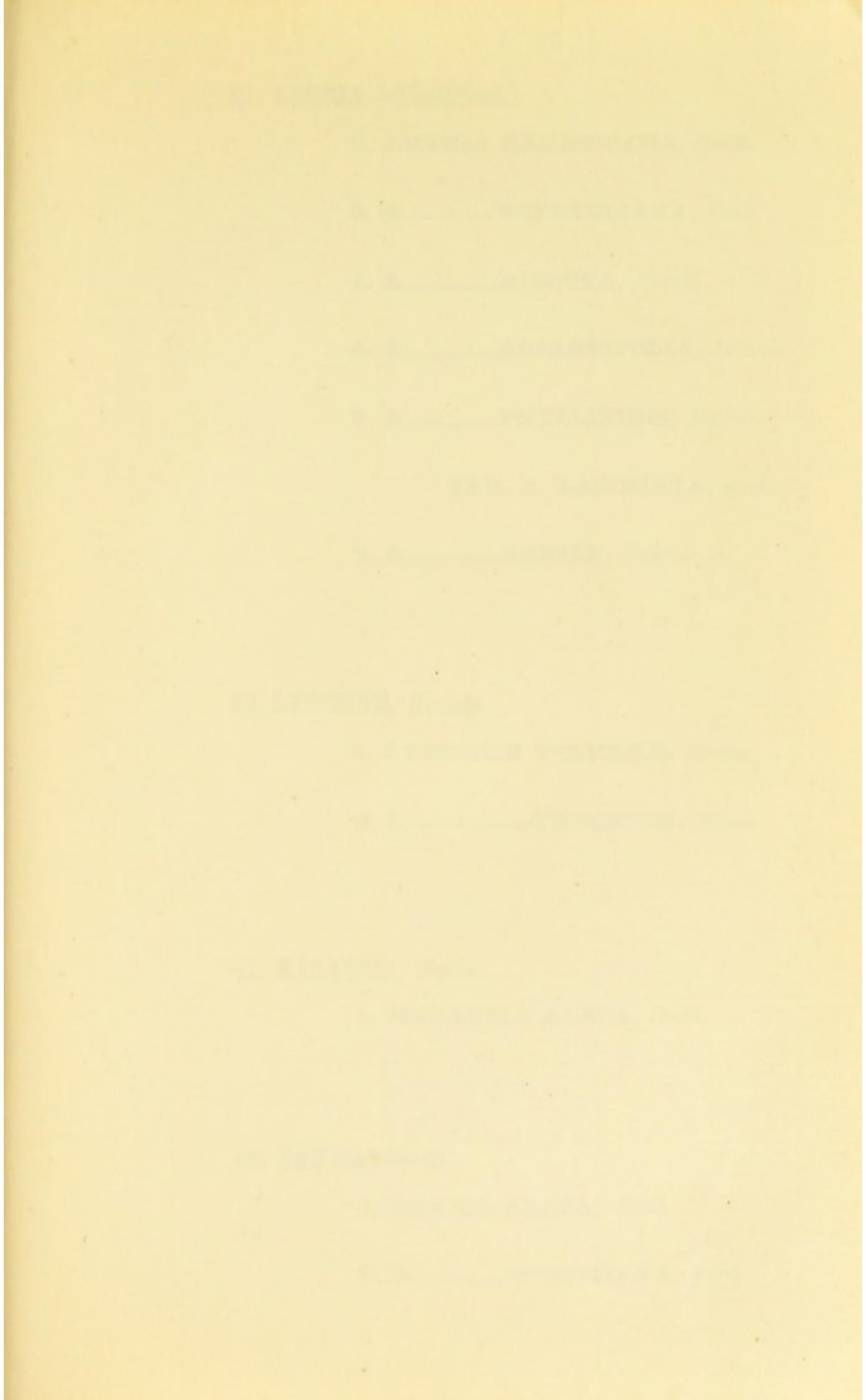




36. ACROSTICHUM—(Continued.)

17. A——(STENOCHLÆNA) SORBIFOLIUM, *Linn.*VAR. LONGIFOLIA, *J. Smith.*18. A——(POLYBOTRYA) OSMUNDACEUM, *Hook.*19. A——(RHIPIDOPTERIS) PELTATUM, *Swartz.*20. A——(OLFERSIA) CERVINUM, *Swartz.*21. A——(GYMNOPTERIS) ALIENUM, *Swartz.*VAR. FLAGELLUM, *Jenman.*22. A——NICOTIANÆFOLIUM, *Swartz.*VAR. SAXICOLUM, *Jenman.*23. A——(CHRYSODIUM) AUREUM, *Linn.*24. A——(HYMENODIUM) CRINITUM, *Linn.*37. OSMUNDA, *Linn.*1. OSMUNDA CINNAMOMEA, *Linn.*38. SCHIZÆA, *Smith.*1. SCHIZÆA ELEGANS, *Swartz.*39. ANEMIA, *Swartz.*1. ANEMIA HUMILIS, *Swartz.*





39. ANEMIA—(Continued.)

2. **ANEMIA MANDIOCANA**, Raddi.3. **A_____BREUTELIANA**, Presl.4. **A_____HIRSUTA**, Swartz.5. **A_____ADIANTIFOLIA**, Swartz.6. **A_____PHYLLITIDIS**, Swartz.**VAR. A. LACINIATA**, Link.7. **A_____AURITA**, Swartz.

40. LYGODIUM, Swartz.

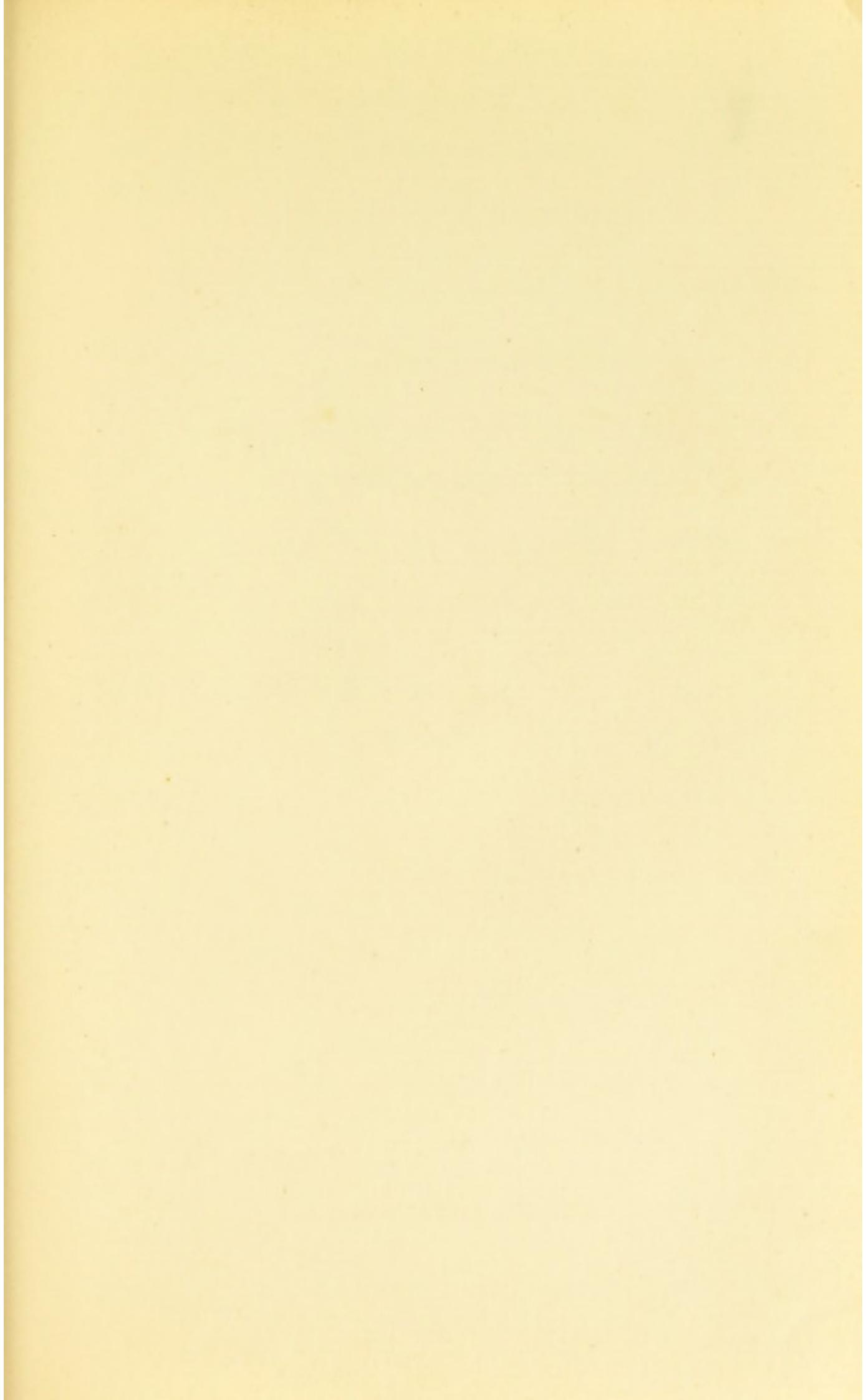
1. **LYGODIUM VOLUBILE**, Swartz.2. **L_____VENUSTUM**, Swartz.

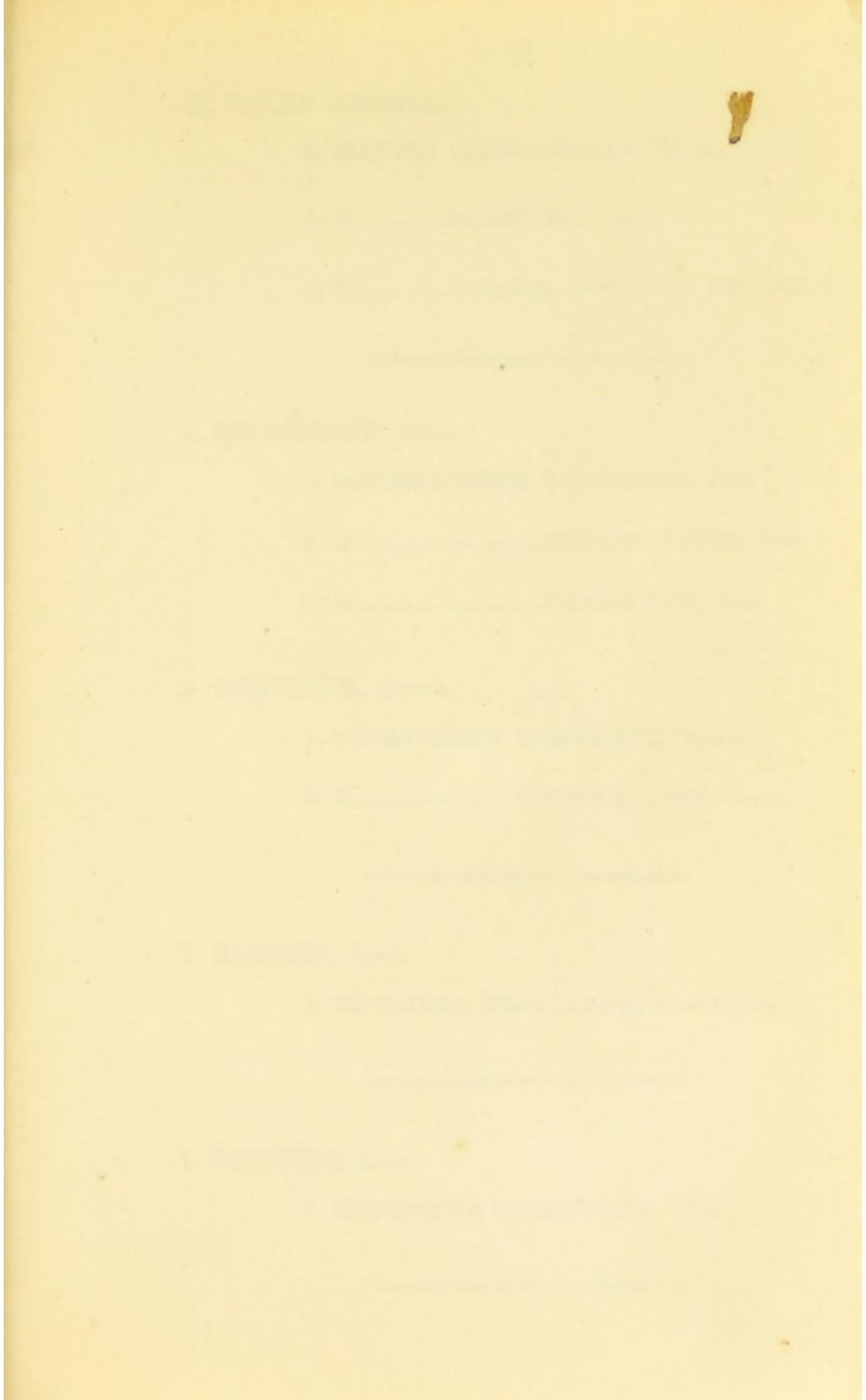
41. MARATTIA, Smith.

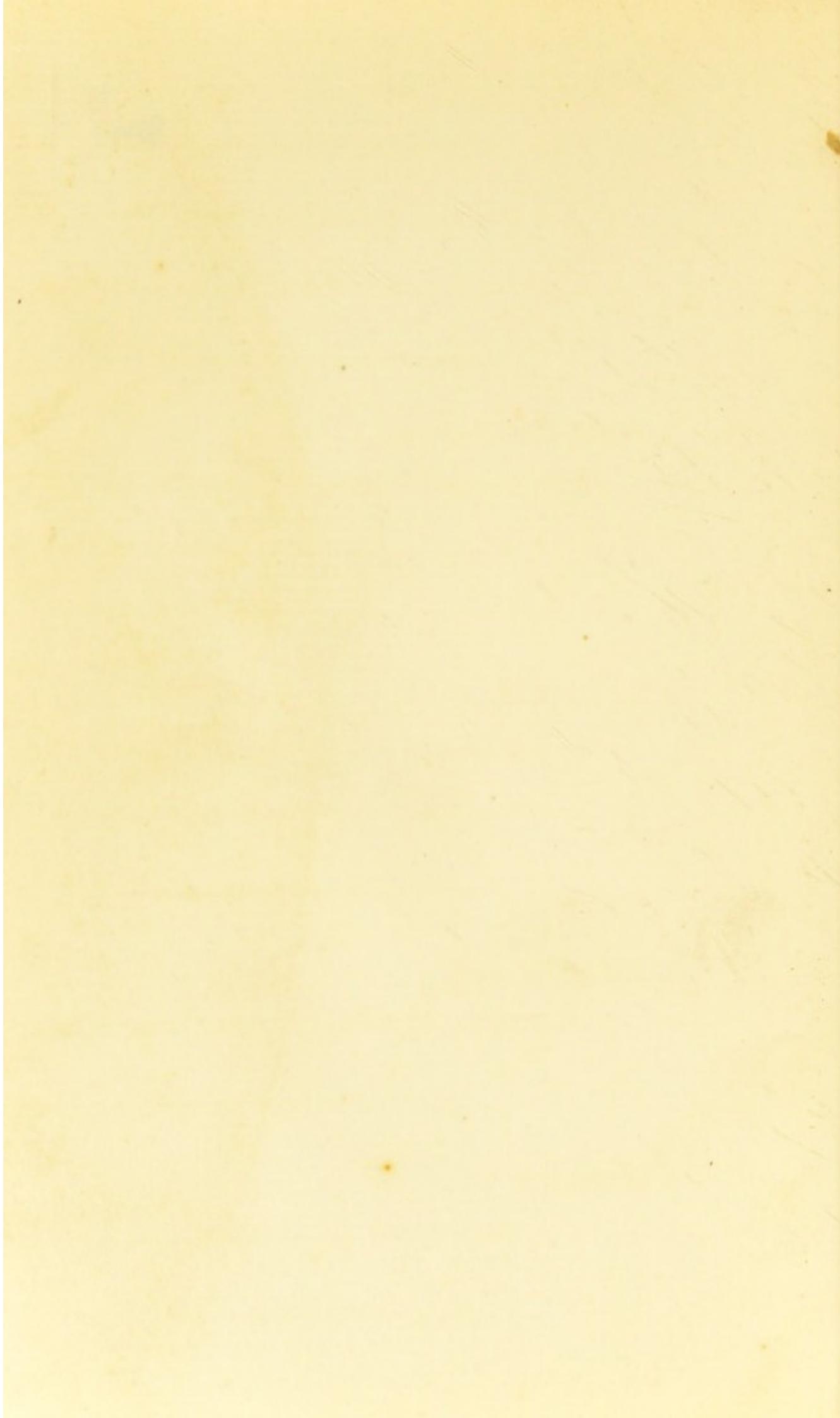
1. **MARATTIA ALATA**, Smith.

42. DANÆA, Smith.

1. **DANÆA ALATA**, Smith.2. **D_____MORITZIANA**, Presl.







42. DANÆA—(Continued.)

3. DANÆA STENOPHYLLA, Kunze.

4. D _____ ELLIPTICA, Smith.

5. D _____ NODOSA, Smith. VAR. ENODIS, Baker.

1. OPHIOGLOSSUM, Linn.

1. OPHIOGLOSSUM VULGATUM, Linn.

2. O _____ RETICULATUM, Linn.

3. O _____ PALMATUM, Linn.

2. BOTRYCHIUM, Swartz.

1. BOTRYCHIUM TERNATUM, Swartz.

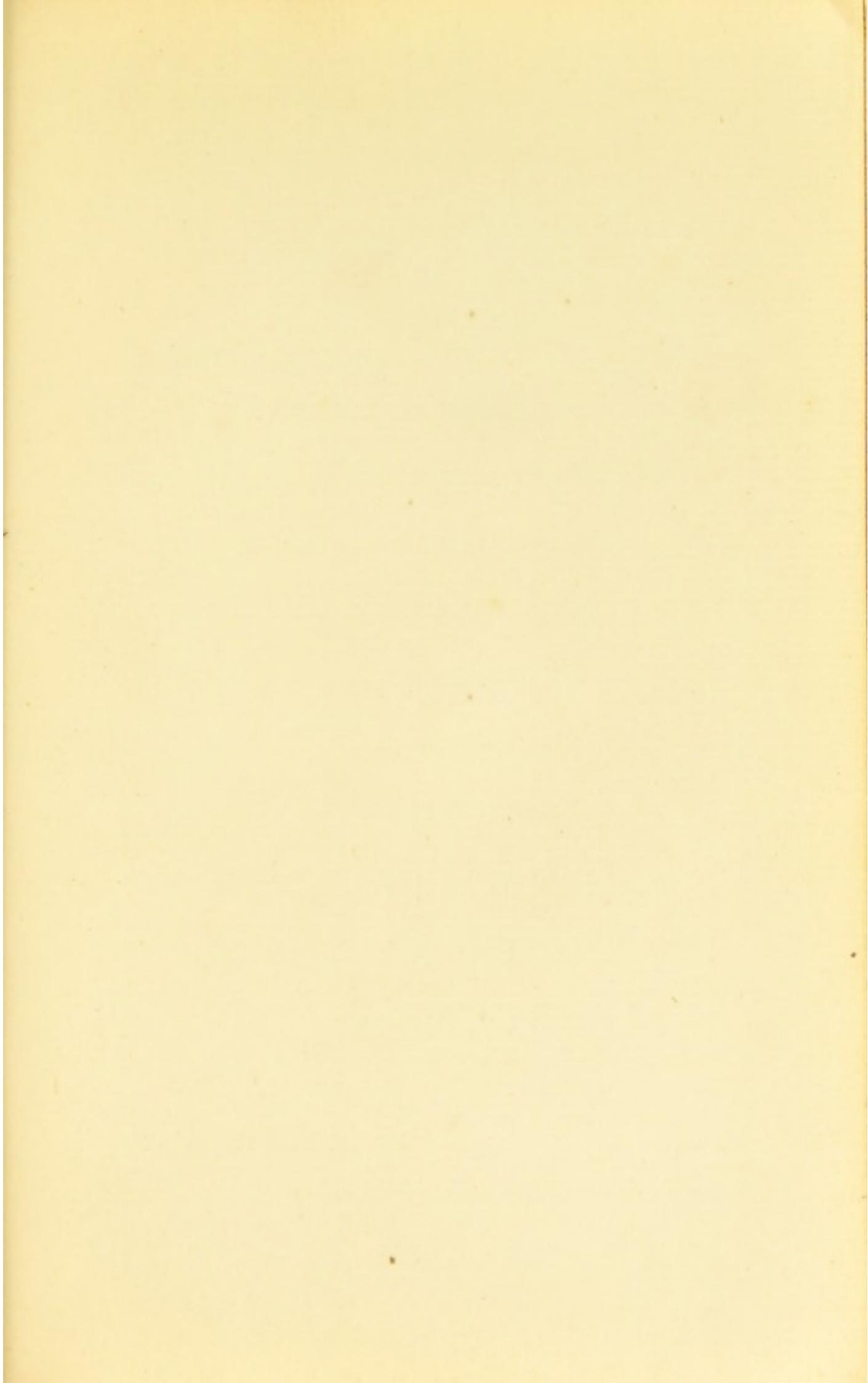
2. B _____ VIRGINEANUM, Swartz.

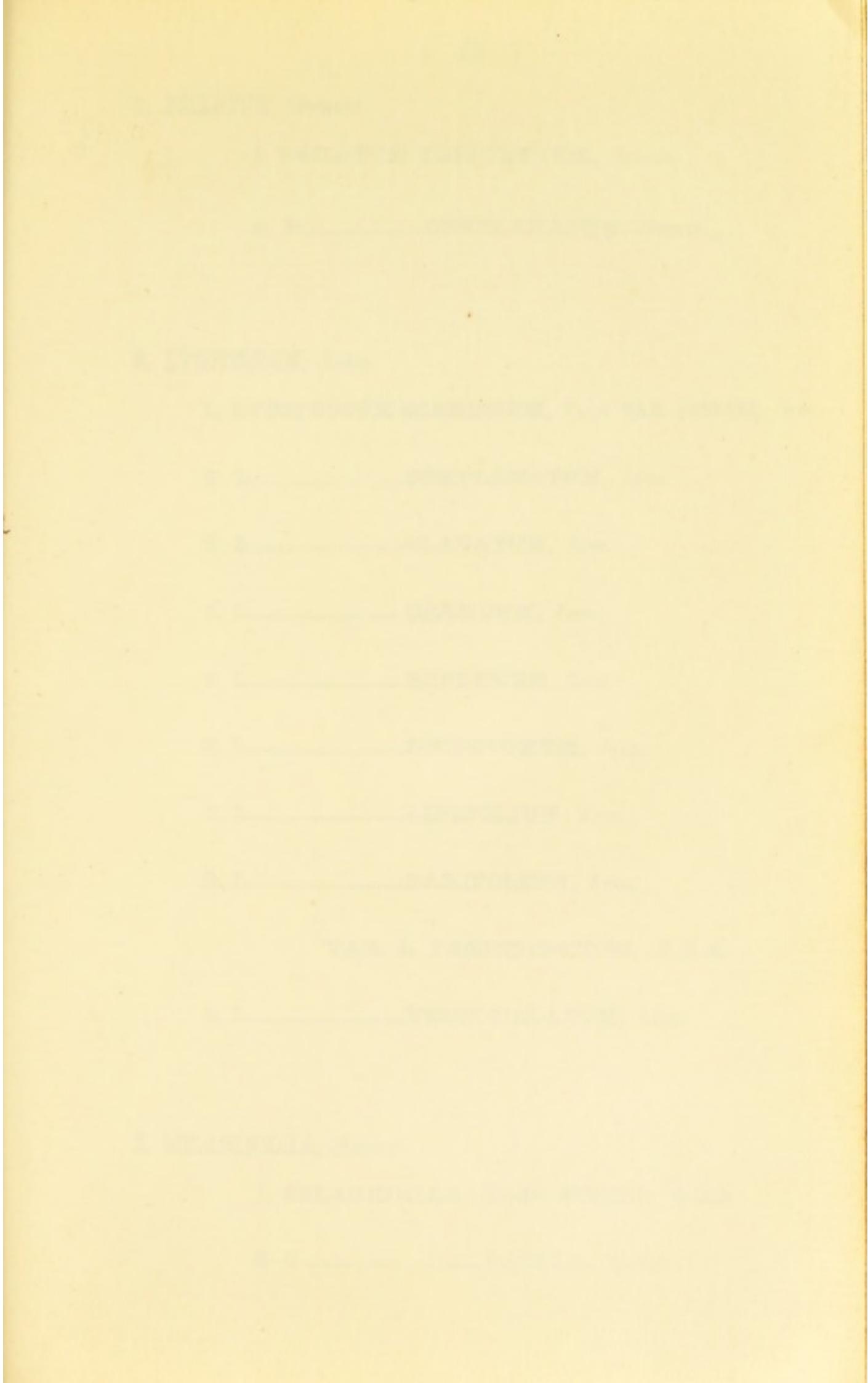
1. MARSILEA, Linn.

1. MARSILEA POLYCARPA, Hook & Grev.

1. EQUISETUM, Linn.

1. EQUISETUM GIGANTEUM, Linn.





1. PSILOTUM, *Swartz.*

1. PSILOTUM TRIQUETRUM, *Swartz.*

2. P_____COMPLANATUM, *Swartz.* *

2. LYCOPODIUM, *Linn.*

1. LYCOPODIUM SCARIOSUM, *Forst.* VAR. JUSSIÆI, *Desv.*

2. L_____COMPLANATUM, *Linn.*

3. L_____CLAVATUM, *Linn.*

4. L_____CERNUUM, *Linn.*

5. L_____REFLEXUM, *Lam.*

6. L_____DICHOTOMUM, *Jacq.*

7. L_____LINIFOLIUM, *Linn.*

8. L_____TAXIFOLIUM, *Linn.*

VAR. L. PASSERINOIDES, *H. B. K.*

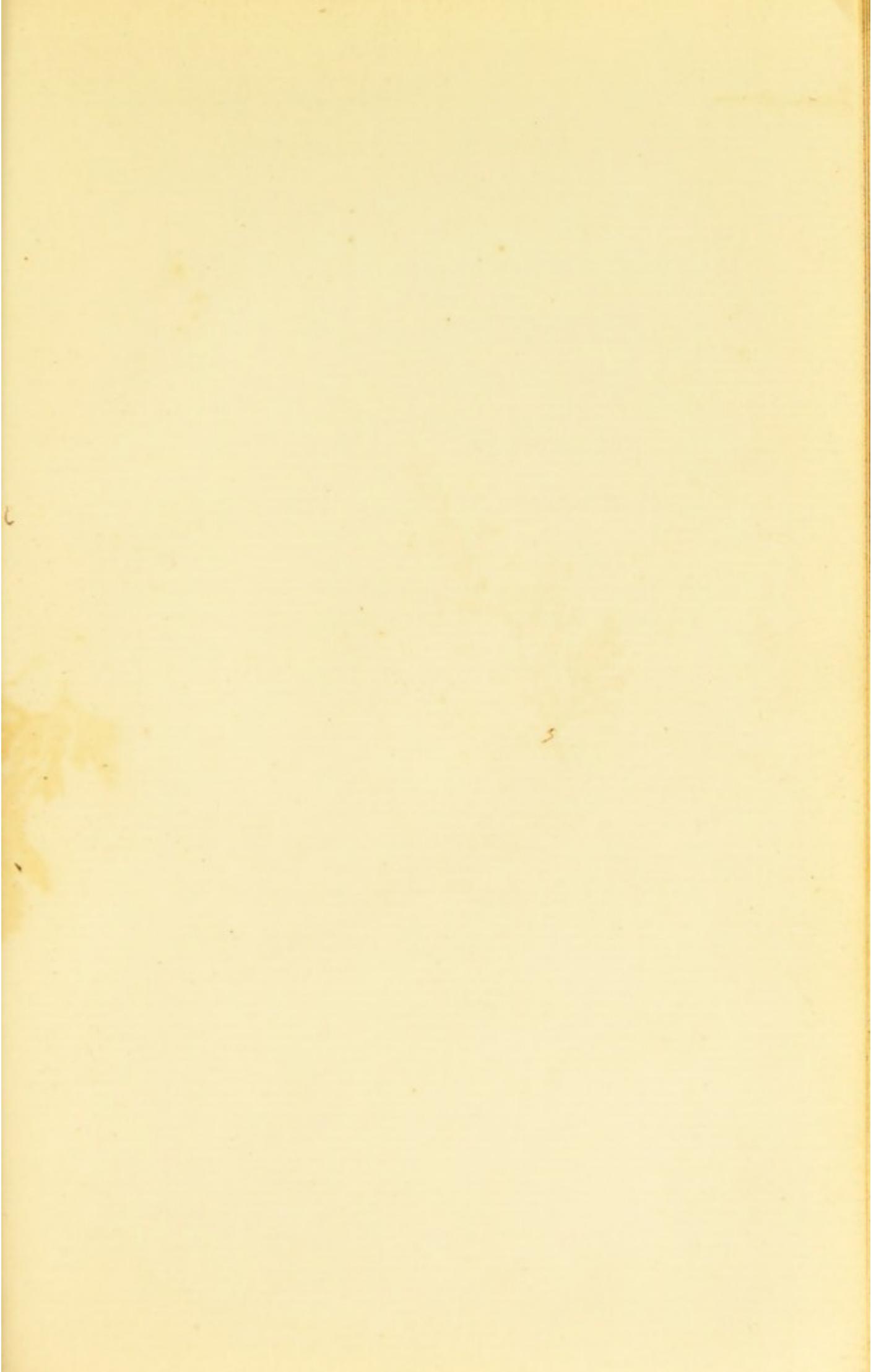
9. L_____VERTICILLATUM, *Linn.*

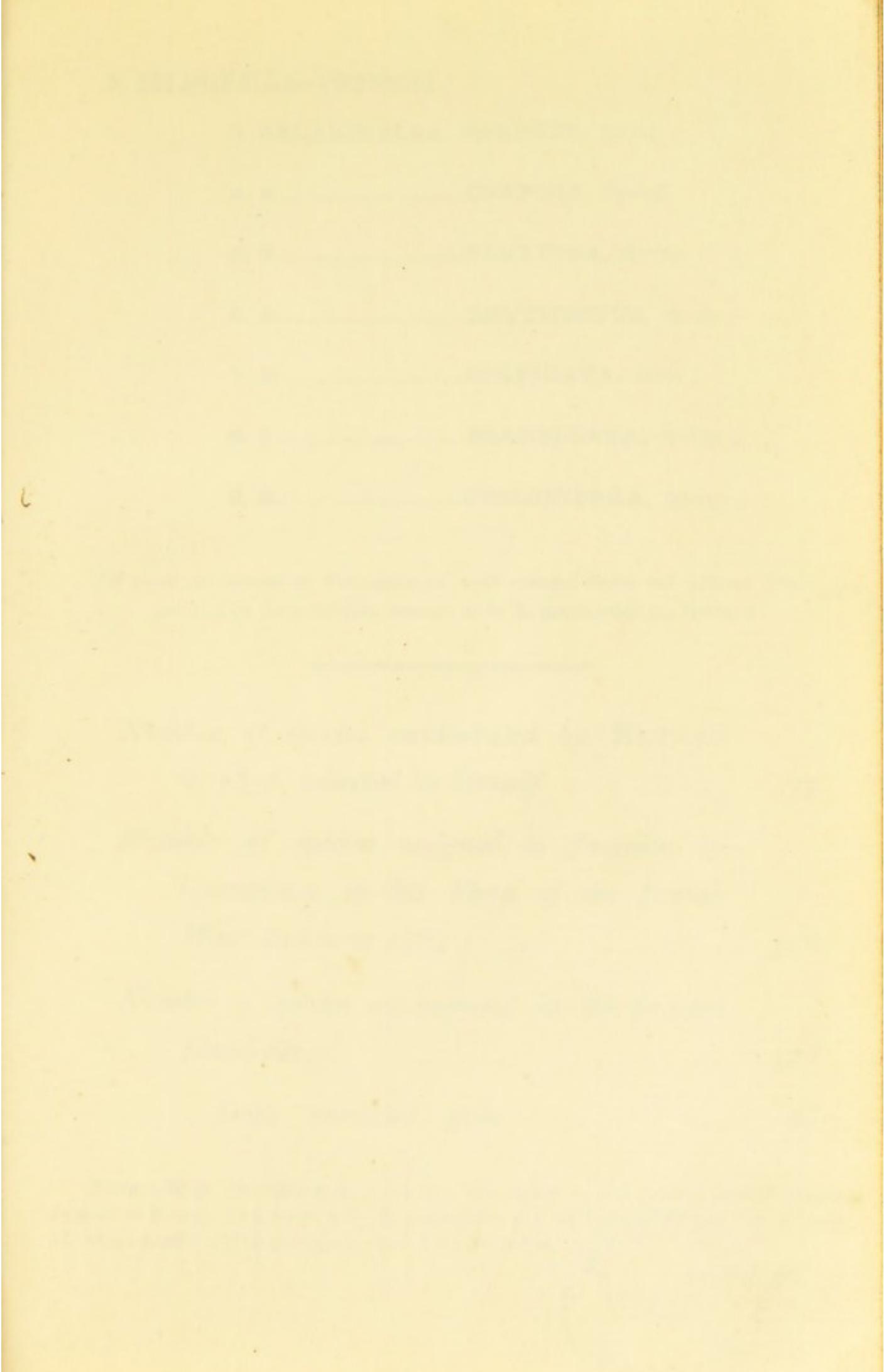
3. SELAGINELLA, *Beauv.*

1. SELAGINELLA ALBO-NITENS, *Spring.*

2. S_____PATULA, *Spring.* *







3. SELAGINELLA—(Continued.)

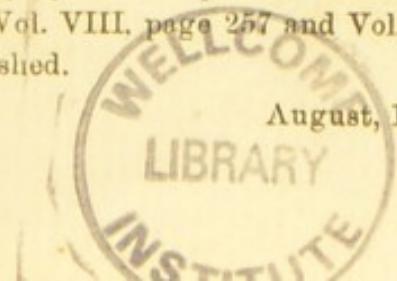
3. SELAGINELLA SERPENS, *Spring.*4. S_____CONFUSA, *Spring.*5. S_____FLEXUOSA, *Spring.*6. S_____ERYTHROPUS, *Spring.*7. S_____CUSPIDATA, *Link.* *8. S_____FLABELLATA, *Spring.* *9. S_____STOLONIFERA, *Spring.* *

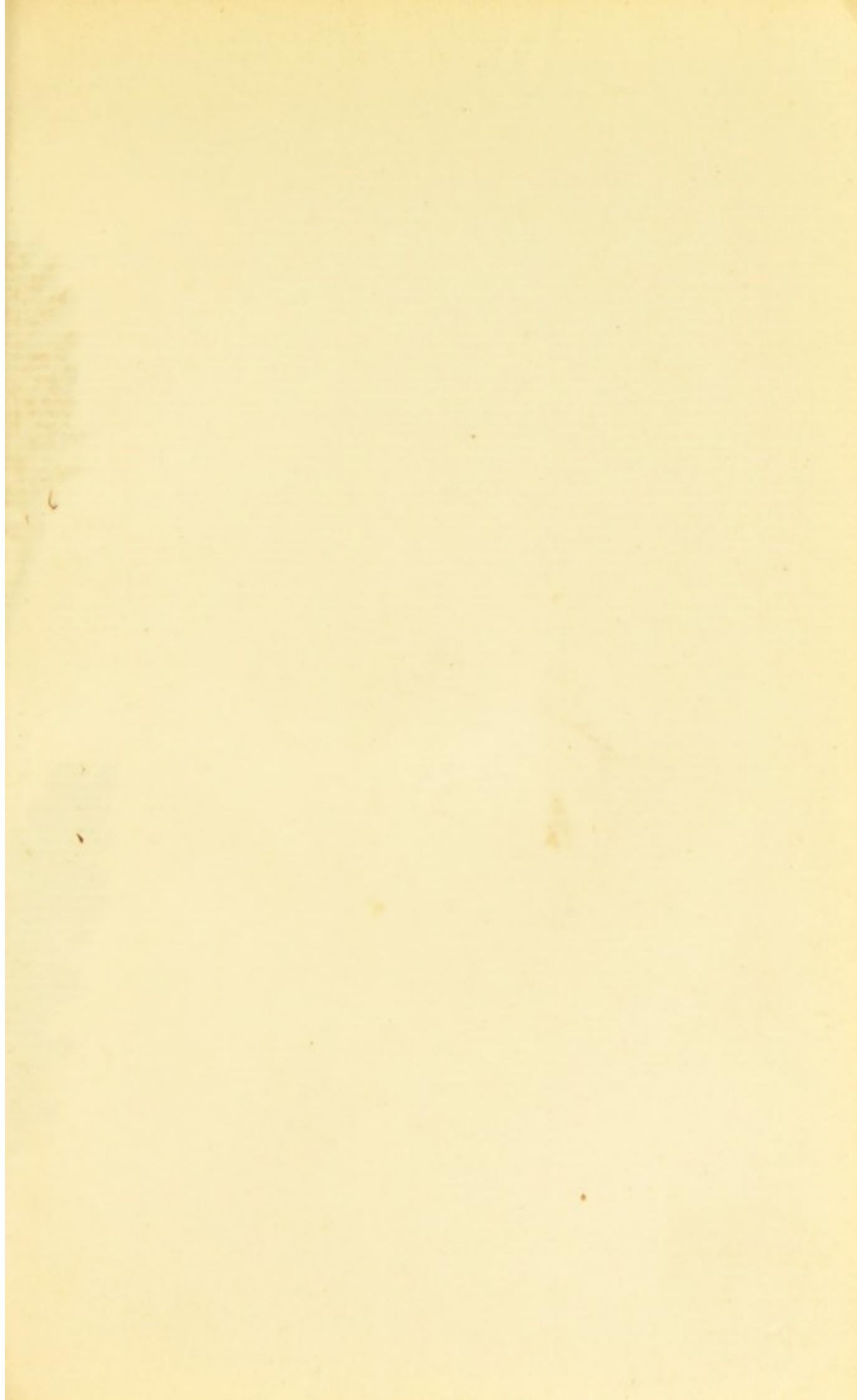
(A small lax species of SELAGINELLA with rounded leaves but without fruit, gathered on the mountains, appears to be S. ROTUNDIFOLIA, *Spring.*)

Number of species enumerated by HEWARD in 1838, collected by himself	77
Number of species assigned to Jamaica by GRISEBACH in his Flora of the British West Indies in 1864	310
Number of species enumerated in the present Hand-list	428
Ditto varieties ditto	66

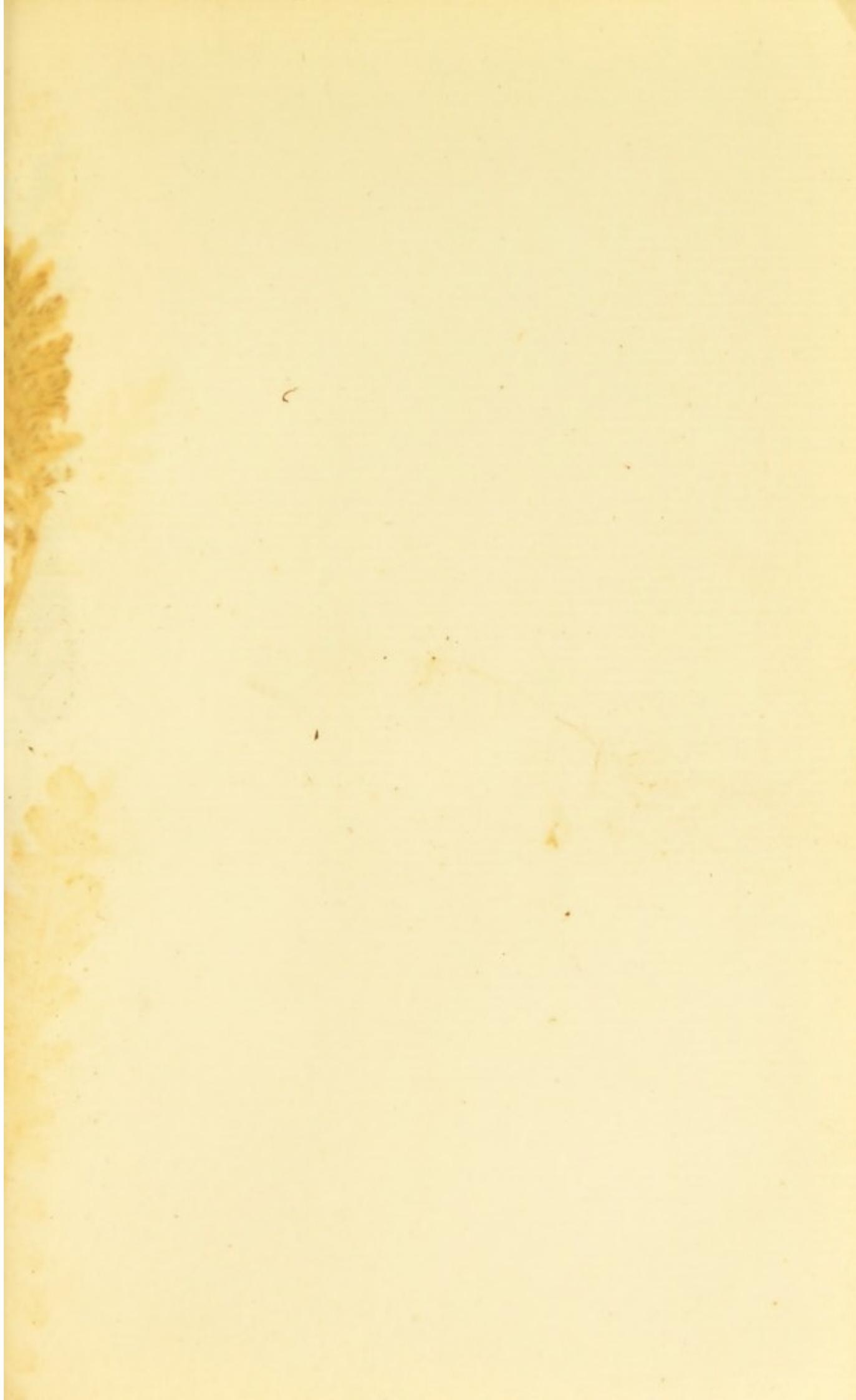
NOTE.—With the references given for Synonymy in the preface should appear Journal of Botany, new series Vol. VI, page 263; Vol. VIII, page 257 and Vol. X, page 51, where nearly all the new plants have been published.

August, 1881.

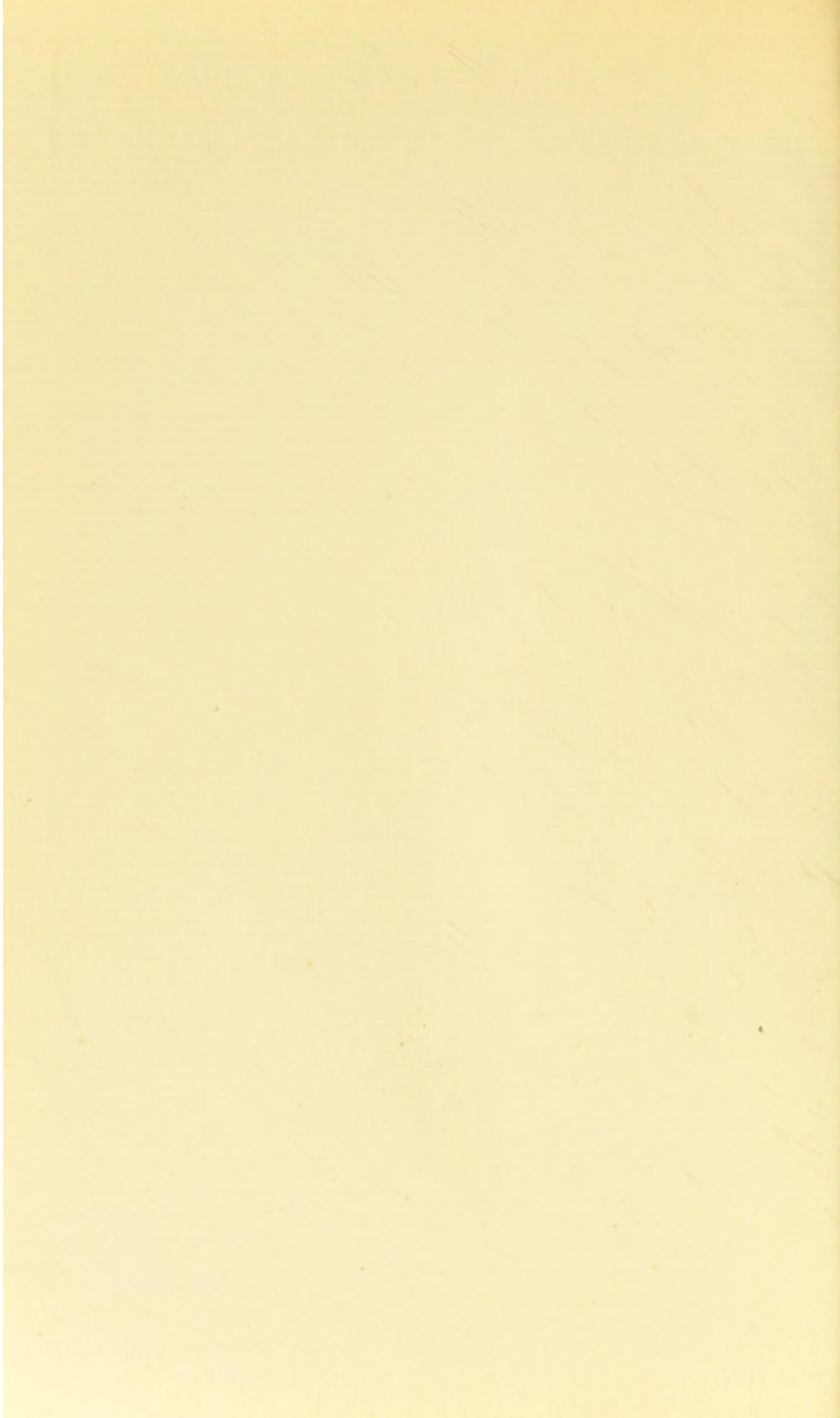


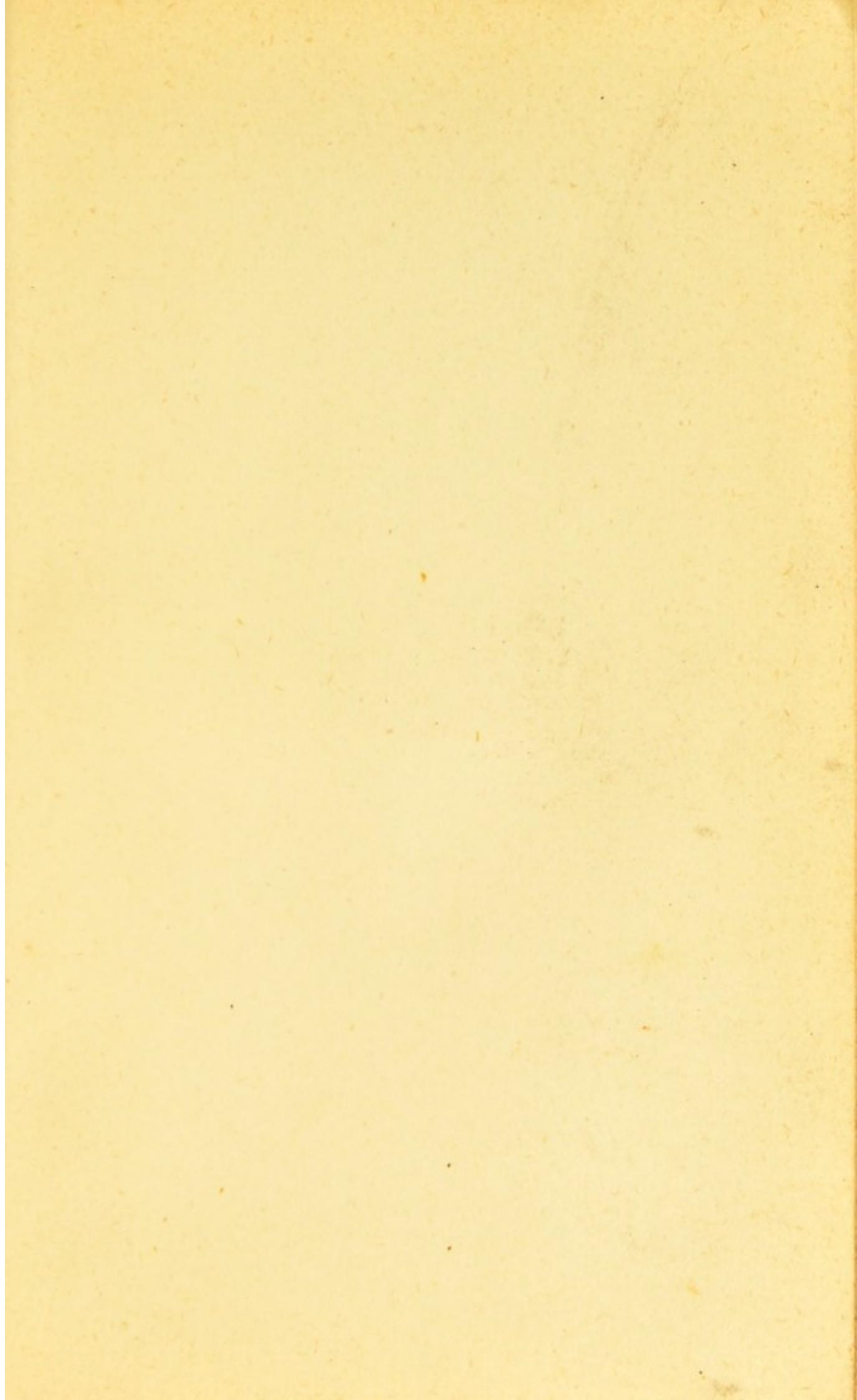


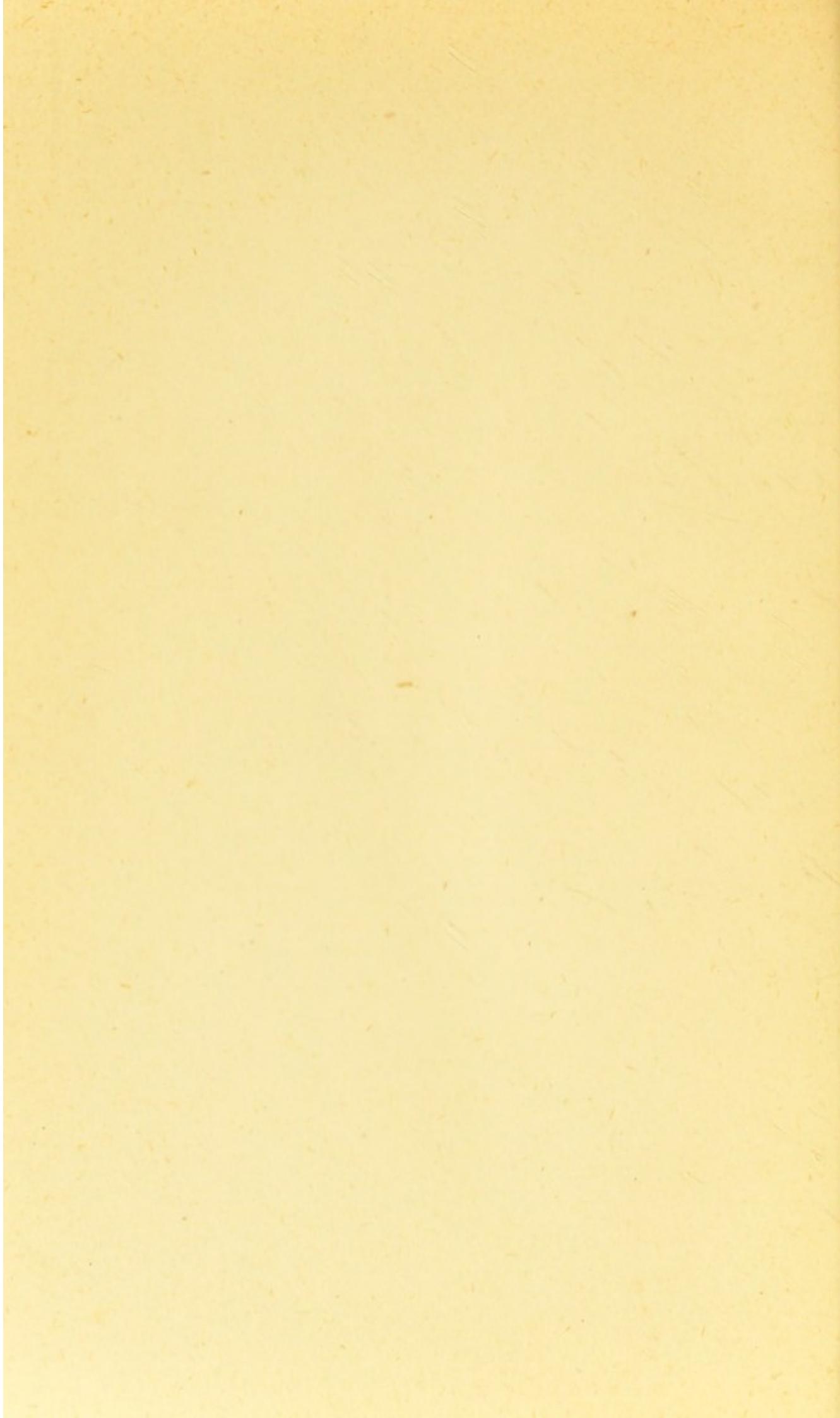


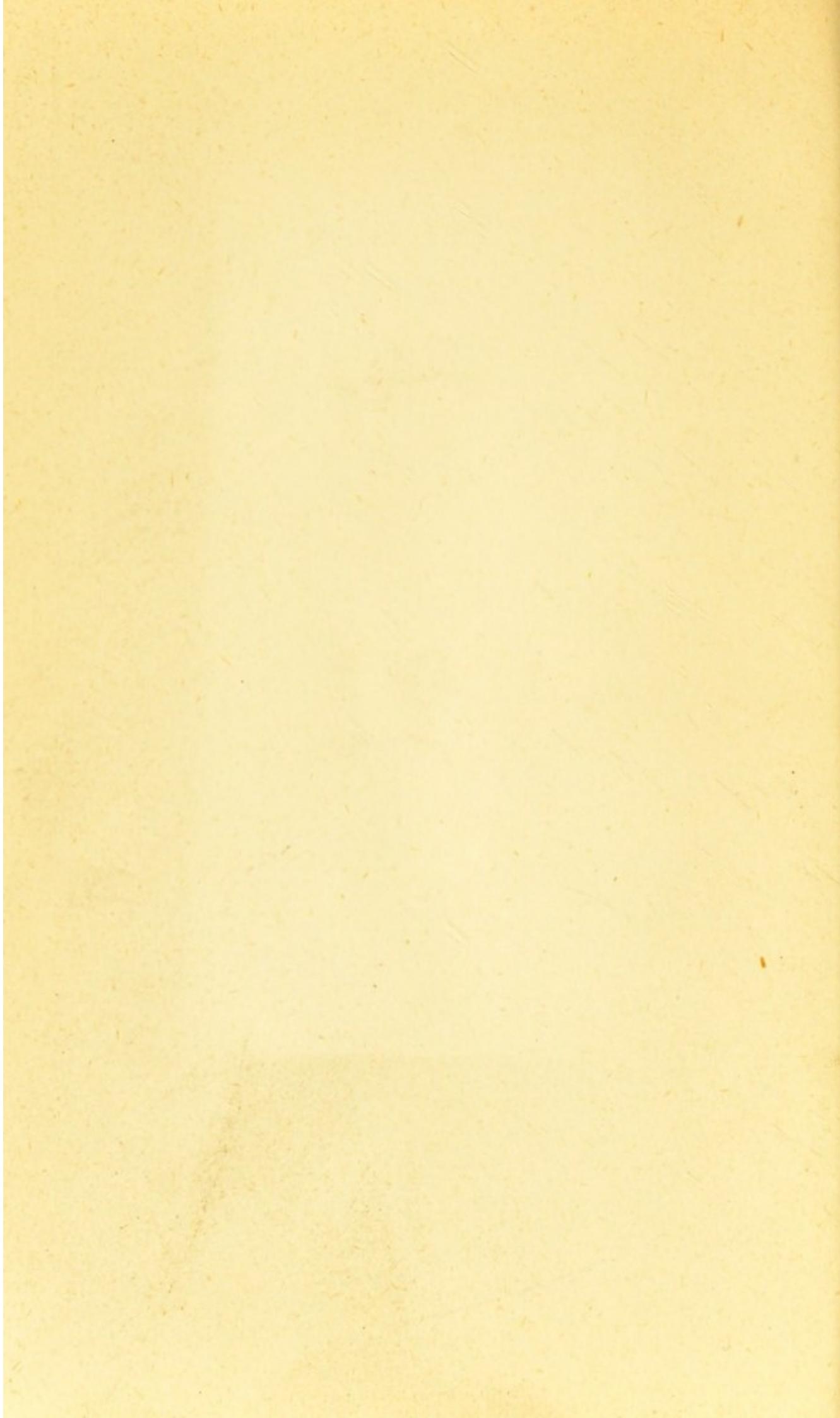




















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