

BIBLIOGRAPHY OF THE SPECIES OF GRINDELIA

by

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SCHOOL OF PHARMACY

A Thesis Submitted for the Degree of
GRADUATE IN PHARMACY

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Covanilles, A. J

1791 - 1800

Grindelia glutinosa

Incones et descriptione plantarum quae out sponte in Hispania crescunt, out in hortis hospitantur Madrid 2. p. 53 t. 168. (Prod., V. 5, p. 314., Pittonia, V. 2, p. 287.)

Descriptoons of various species of grindelia are given.

Sims, J.

1799 - 1817

Grindelia squauosa

Bot. Mag., (15-42), t. 1706, (Prod., V. 5, p. 315, Pharmacolog Newer Mat. Med., p. 754., Reprint No. 32, Flora Americana Septentrionalis, V. 2, p. 559., Grays Flora N. Am., V. 2, p. 246.)

Gives a colored plate with description.

Lagosca, M.

1806

Demelria inuloides

Eclenchus plantarum quae in horto botanico matritensi calebantur 4 to Madrid., p. 20 and 30., (Prod., V. 5, p. 314 and 315., Gray's Flora N. Am., V. 2, p. 247.)

He gives a description of grindelia inuloides.

Mildenow, C. T.

1807

Grindelia

Verhandelingen der geselleschoft natur-forchender Fredunde in Berlin cont., p. 261., Enumeratio plantarum hortii regii botanici beralinesis, p. 1894., (Gray's Flora of N. Am., V. 2, p. 247., Prod., V. 5, p. 314.)

A description of several species of grindelia.

Persoon, C. W.

1807

Inula Seirata

Synopsis plantarum seu enchiridum botanicum, V. 2, p. 451., (Prod., V. 5, p. 315)

A very short description of grindelia inula seurata is given.

Brown, R.

1810 - 1813

Grindelia

Aiton Hortus kewensis 2 ed., V. 5, p. 82., (Pittonia, V. 11, p. 287., Flora of N. Am., V. 11, p. 559., Prod., V. 5, p. 314.)

A description of several species is given.

1814

Grindelia

Bot. reg. 3, t. 187., (Pittonia, V. 2, p. 287.)

(not available)

Cassini, H.

1816

Grindelia inuloides

Dictionnaire des sciences naturelle, V. 37, p. 468., (Prod., V. 5, p. 314.)

Descriptions of the above and several other species are given here.

Nuttall, I.

1818

Grindelia squauosa

The Genera of N. Am. plants and a catalog of the specie, V. 2, p. 163., (Gray's Flora of N. Am., V. 2, p. 248.)

Describes *grindelia squauosa*.

Hooker, W. J., Bentham, G., Kunth, K. S.

1820

Grindelia Angustifolia

Nova genera americana V. 4, p. 309. (bot. reg.) t. 781., (Prod. V. 5, p. 315.)

Describes *grindelia angustifolia*.

Tehmann, J. G. C.

1820 - 1837

Grindelia Cronopifolia

Semina in harto botanico hamburgensi collecta abanno, p. 16., (Prod., V. 5, p. 316.)

A description of the above species of *grindelia* is given.

Tink

1821 - 1823

Grindelia Arguta

Enumeratio plantarum hortii regii botanici beralinesis 2. p. 336., (Prod., V. 5, p. 315.)

A description of *grindelia arguta*.

Duvalii,

1822 - 1827

Grindelia Angustifolia

Sprengel K. Systema vegetabilum, V. 3, p. 575., (Prod., V. 5, p. 315.)

Descriptions of several species of *grindelia* are given.

Hooker, N. J.

1827 - 1844

Grindelia Inuloides

Bot. Mag., (18. 2, V. 54-70), t. 3737., (Gray's Flora N. Am., V. 2, p. 247.)

Gives a description and colored illustration of *Grindelia Inuloides*.

Don, G.

1830

Grindelia Lambertii

Louden, J. C. Hortus britannicus 1, Vol. p. 350., (Prod., V. 5, p. 316.)

Descriptions of several species of *grindelia* are given.

Schlechtendahl, D. F. T. v.

1836

Grindelia Coronopifolia

Linnala p. 376., (Prod., V. 5, 316.)

Describes the species coronopifolia of grindelia.

Hooker, and Arnott,

1834 - 1836

Grindelia Cunifolia

Bot. Beechy, p. 147., (Prod., V. 7, p. 278., Gray's Flora of N. Am., V. 2, p. 247.)

A description of grindelia cunefolia.

1836

Grindelia Rubricaulis

Commentaries ab. honor society horticulture London, , p.
(Prod. V. 5, p. 316.)

Describes *Grindelia rubricaulis*.

1836

Grindelia Buphthalmoides

Hortus museum regii Parisii a Museum impuatan Brosiliner.
Sub. n. 1027 miss., (Prod., V. 5, p. 316.)

Describes *grindelia buphthalmoides*.

1836

Grindelia Anomala

Hortus museum regii Parisii a Museum impuatan Brosiliner n. 1031., (Prod., V. 5, p. 316.)

Describes *grindelia anomala*.

De Candalle, A. P.

1836

Grindelia

Prod. or V. 5, pp. 314, 315, 316., (Flora of N. Am. V. 2, p. 246.)

He describes various species of *grindelia*.

Desfontaines, R. L.

1836

Donia Fruticosa

Catalogus plantarum horti regii parisiensis, ed. 2, p. 269., (Steudel E. T. Nomenclator Botanicus etc. pt. 1, p. 707., Prod., V. 5, p. 316.)

Describes *grindelia fruticosa* under the title *Donia Fruticosa*.

De Candalle, A. P.

1838

Grindelia

Prod., V. 7, (matiss) p. 278., (Flora of N. Am. V. 2, p. 247)

Description of additional species of *grindelia*.

Touy, J., and Gray, A.

1838

Grindelia

Flora of N. Am., N. 2, p. 247., (U. S. Dispens. 13 ed., p. 1605., Ibid., 14 ed., p. 1659., Ibid., 15 ed., p. 726.)

They name various species of *grindelia* and describe them.

Dunal,

1838 - 1840

Grindelia

Mem. mus. h. n. paris. 5, p. 48., (Bot. reg., t. 248., Pittonia, V. 2, p. 287., Flora of N. Am., V. 2, pp. 246 and 247., Prod., V. 5, p. 314.)

Describes several of the species of *grindelia*.

Hooker, N. J.

1838 - 1840

Grindelia Squauosa

fl. Bor. Am., V. 2, p. 25., (Gray Flora N. Am., V. 2, p. 248)

A description of the *grindelia Squauosa* and its habitat.

Nuttall, F.

1838 - 1840

Grindelia Inuloides

Jour. Acad. Philad., 7, p. 74., (Gray's Flora N. Am., V. 2, p. 247.)

Gives a description of the species *inuloides*.

Richardson, J.

1838 - 1840

Grindelia Squauosa

Jour. Frankl. Instit., 2 ed., p. 33., (Gray's Flora N. Am., V. 2, p. 248.)

He probably describes *grindelia squauosa*.

Touy, J.

1838 - 1840

Grindelia Squauosa

in Ann. Lyc. N. Y., 2, p. 212., (Gray's Flora N. Am., V. 2, p. 248.)

He gives a description of the species *squauosa* and its habitat.

Nuttall, I.

1841

Grindelia Robusta

Trans. Am. Phil. Soc., N. S., 7, p. 314., (Proc. Am. Pharm. Assoc., 54., p. 371., Gray's Flora N. Am., V. 2, p. 247.)

A description of the species and genus together with the habitat is given.

Nuttall, I.

1841

Grindelia

Trans. Am. Phil. Soc., 7. N. S., p. 314., (Gray's Flora N. Am., V. 2, p. 247.)

A description of several species of *grindelia* and their habitat is given.

Canfield, C. A.

1860

Grindelia hirsutula

Am. Journ. Pharm. 32, p. 412., (U. S. Dispens. 12 ed., p. 838., Ibid., 13 ed., p. 871., Ibid., 14 ed., p. 908., Ibid., 15 ed., p. 1245.)

Found that *grindelia hirsutula* a California plant was beneficial for use as an antidote in the poisoning by poison oak.

Gibbons, N.

1865

Grindelia Robusta

Poc Med. and Surg. Journ., , p. ., (Med. and Surg. Rep., , p. 520., U. S. Dispens., 13 ed., p. 1605., Ibid., 14 ed., p. 1659., Pharm. Zulschf f. Russ., 6, p. 829., Proc. Am. Pharm. Assoc., 16, p. 188.)

A description of the plant, its habitat, and uses of *grindelia* are given.

Canfield, C. A.

1873

Grindelia hirsutula and *Grindelia robusta*

Drugg. Circ., 17, p. 75., (Proc. Am. Pharm. Assoc., V. 21, p. 225 and 257.)

He gives a description of the plant and its use as an antidote in poisoning by *Rhus toxicadindron*.

Fiske, H. M.

1875

Grindelia Robusta

Poc. Med. and Surg. Journ., , p. ., (Drug. Circ., 19, p. 201., New Prep., 1, p. ., Am. Journ. Pharm., 47. p. 423., U. S. Dispens., 14 ed., p. 1659.)

It has been highly commended in iritis used internally and externally, and as a local application in burns as a vaginitis, and gentio and urinary catarrhals poultice or injection.

Smith, Q. S.

1875

Grindelia

Pacific Med. and Surg. Jour., April., V. , p. , Proc. Am. Pharm. Assoc., V. 23., p. 640., Drugg. Circ. 20, p. 22.)

He states that in a severe case of asthma he gave pills made from grindelia and cured the patient.

Stiele, J. G.

1875

Grindelia Robusta

Chicago Pharmacist. Dec. V. , p. ., (New Rem., V. 5, p. 13.)

Describes its use as a remedy against the effects of Rhus toxicodendron.

Steele, J. G.

1875

Grindelia Robusta

Proc. Am. Pharm. Assoc., 23, p. 637.

He gives a description of the drug, its habitat, how fluid extracts are made from it, its beneficial use in the poisoning by poison oak and pills of it in relief of asthma.

Bremer, N. N., Matson, T., and Gray, A.

1876

Grindelia

Bot. of Calif., VI, p. 203., (Proc. Am. Pharm. Assoc., 27, p. 610., Ibid., 54, p. 371.)

Describes and compares the various species of grindelia.

Bundy, J. H.

1876

Grindelia Squauosa

Eclec. Med. Jour., 36, p. 303.

He gives an account of the habitat, its use in hypertrophy of the spleen and minor other uses. He also gives an account where he tried out the drug upon himself.

Fiske, H. M.

1876

Therapeutic Properties of *Grindelia Robusta*

Poc. Med. Journ., p. ., (New Prep., 1, p. 4., Pharmacology Newer Mat. Med., p. 734., Reprint No. 31.)

Reports the successful use of grindelia when the skin was poisoned, especially by poison oak.

Steele, J. G.

1876

Grindelia Robusta

Drugg. Circ. and Chem. Gaz., V, 20, p. 22.

He describes the poison ivy and its habitat and the many cases of poisoning. The many attempts to find a successful cure. Then the cure by the use of *grindelia*. The habitat of it, time of collection, other uses, and preparation for use.

Bundy, J. H.

1877

Physiological Action of *Grindelia Squauosa*

New. Prep., 1, p. 7, (Pharmacology Newer Mat. Med., p. 754, 759, and 763., Reprint No. 32.)

He reports the success with *grindelia* in various cases and speaks very highly of it.

Butterfield, S. A.

1877

Grindelia Robusta in Asthma

New. Prep., 1, p. 17., (Pharmacology Newer Mat. Med., p. 740., Reprint No. 31.)

Having had success with *grindelia* he advises its use by others.

Canfield, C. A.

1877

Grindelia Robusta

Pacific Med. and Surg. Journal, p. , (New Rem. 6, p. 326.)

Botanical characteristics, habitat, and medicinal value are discussed.

Cleland, N. I.

1877

Grindelia Robusta in Pneumonia

New Prep., 1, p. 9., (Pharmacology Newer Mat. Med., p. 749., Reprint No. 31.)

He had success in using grindelia in pneumonia and in dropsy.

Crowe, J. E.

1877

Grindelia Robusta in Asthma

Louisville Med. Times., , p. ., (New. Prep., 1, ., New Rem., 5, p. 85., Pharmacology Newer Mat. Med., p. 744., Reprint No. 31.)

In four cases success with grindelia in asthma was reported.

Devendorf, D. B.

1877

Grindelia Robusta

New. Prep., 1, p. 17.

He thinks very favorably of grindelia.

Editor

1877

Grindelia Robusta

New. Remedies, 6, p. 2120

In answer to a question gives a description of the plant at different seasons.

Editor

1877

Grindelia in Ulceration of the Os and Cervix Uteri

Eclec. Med. Jour., 47, p. 52.

States that *grindelia* is useful in the ulceration of the cervix and gives dosage to be used.

Goss, I. J. M.

1877

Grindelia Robusta Botanical Origin and History

Newer Mat. Med., p. ., (Pharmacology Newer Mat. Med., p. 732., Reprint No. 31., New Prep., 1, p. 17.)

A short account of the history of *grindelia*.

Griffin, G.

1877

Grindelia Robusta and Yerba Sonte
in Asthma and Bronchial Irritation

Med. Brief, , p. ., (New Prep., 1, p. 17., Pharmacology Newer Mat. Med., P. 740., Reprint No. 31.)

Reports curing a case of bronchial trouble.

Harvey, J. N.

1877

Grindelia Robusta in Asthma

New Prep., 1, p. 21., (Pharmacology Newer Mat. Med., p. 740.,
Reprint No. 31.)

Reports that his wife found relief in using *grindelia* for
asthma.

Malloy, G. W.

1877

Grindelia Robusta in Asthma

New. Prep., V. 1, p. 17., (Pharmacol. Newer Mat. Med., p. 741.,
Reprint No. 31.)

Reports success in the use of *grindelia* in asthma.

Morse,

1877

Physiological Action of *Grindelia Squauosa*

New Therap. Gaz., 1, p. 126., (Pharmacology Newer Mat. Med.,
p. 754., Reprint No. 32.)

The habitat and description are given.

Puttee,

1877

Grindelia Robusta in Whooping Cough

New. Rem., 6, p. 362.

At a meeting of the Suffolk District Med. Soc. he gave an account of benefits of *grindelia* tincture for whooping cough.

Rodemaker, C. J.

1877

Grindelia Robusta in Bronchitis

Louisville Med. News, , p. ., (New Prep., 1, p. 15, New Rem., 5, p. 205., Pharmacology Newer Mat. Med., p. 748, Reprint No. 31., U. S. Dispens., 15 ed., p. 726., Ibid., 19 ed., p. 601., Ibid., 20 ed., p. 535., King's Am. Dispens. 18 ed., 3rd., rev., V, 1. p. 956., Am. Jour. Pharm., 60, p. 434.)

Reports curing Bronchitis by *grindelia*.

Richardson, J. H.

1877

Grindelia Robusta in Asthma

New. Prep., 1, p. 9., (Pharmacology Newer Mat. Med., p. 739., Reprint No. 31.)

Obtained complete relief in using *grindelia* in asthma.

Richardson, J. H.

1877

Grindelia Robusta

Louisville Med. News., V. , p. ., (New Prep., V. 1, p. 15.)

Successfully treated hereditary cases of asthma with *grindelia*.

Skinner, E. C.

1877

Grindelia Robusta in Asthma

New Prep., 1, p. 21., (Pharmacology Newer Mat. Med., p. 740., Reprint No. 31.)

Says it exceeds all his other remedies in asthma and hayfever.

Steele, J. G.

1877

The Poison Oak of California

Scientific Am. Supp., 4, p. 1517., (New Rem., 6, p. 326., New Prep., 2, p. 24., Pharmacology Newer Mat. Med., p. 752., Reprint No. 31.)

In cases of poisoning by "poison oak", remarkable relief can be had by application of *grindelia*.

Thomas, N. W.

1877

Grindelia Robusta in Asthma

New Prep., 1, p. 21., (Pharmacology Newer Mat. Med., p. 740., Reprint No. 31.)

He used *grindelia* in cases of asthma with heart complication.

Thraillkell, J. N.

1877

Grindelia Robusta in Coughs Generally

New Prep., 1, p. 21., (Pharmacology Newer Mat. Med., p. 750., Reprint No. 31.)

He finds it a good remedy for asthmatic coughs in combination with Yerba Santa.

Williams, N. A. S.

1877

Grindelia Robusta

New Prep., VI, p. 18.

He reports success with grindelia in a severe case of asthma.

1878

Grindelia Robusta in Asthma

Clinic, 14, .. (New Rem., V, 7, p. 44.)

An obstinate case of asthma was overcome by two grain pills of grindelia although following the cure diarrhoea was developed.

Adair, C. H.

1878

Grindelia Squauosa in Auge, etc.

Am. Med. Jour., , p. .., (New Prep. p. 100., Pharmacology of the Newer Mat. Med. Rep. No. 32, p. 761.)

Cites a case where grindelia relieves splenic and throat trouble.

Bundy, J. N.

1878

Therapeutic Properties of Grindelia Squauosa

Am. Med. Jour., , p. .., (New Prep., 2, p. 18., Pharmacology Newer Mat. Med., p. 756., Reprint No. 32.)

He reports using grindelia in cases of splenic hypertrophy successfully.

Cleland, N. I.

1878

Grindelia Robusta in Asthma

New Prep., 2, p. 37., (Pharmacology Newer Mat. Med., p. 741.,
Reprint No. 31.)

Where fever is not too high he recommends the use of *grindelia* very highly.

Coal, D. M.

1878

Grindelia Squarrosa in Splenic Hypertrophy

New Prep., 2, p. 5, (Pharmacology Newer Mat. Med., p. 760.,
Reprint No. 32.)

In two cases of chronic enlargement of the spleen *grindelia* gave relief.

Editor

1878

Grindelia Robusta, Tincture and Elixir

New Rem., 7, pp. 121 and 367.

Directions are given as to preparing tincture and elixir of *grindelia*.

Elliott, N. G.

1878

Grindelia Robusta in Asthma

New Prep., 2, p. 66., (Pharmacology Newer Mat. Med., p. 741.,
Reprint No. 31.)

Reports relieving an old case of asthma with *grindelia*.

Goss, I. J. M.

1878

Grindelia Robusta in Asthma

New Prep., p. 37., (Pharmacol. Newer Mat. Med., p. 741, Reprint No. 31.)

Reports curing an old and stubborn case of asthma.

Halley, D. C.

1878

Grindelia Robusta in Asthma

New Prep., 2, 64., (Pharmacology Newer Mat. Med., p. 741., Reprint No. 31.)

In neurotic tonic and nervous asthma he obtained good results with *grindelia*.

Holmes, E. M.

1878

Grindelia

Pharm. Journ., , p. ., (New Rem., 7, p. 235.)

A description of the various species of *grindelia* is given.

Hopkins, I. S.

1878

Grindelia Squarrosa in Splenic Hypertrophy

Am. Med. Jour., , p. ., (New Prep., 2, p. 77., (Pharmacology Newer Mat. Med., p. 757., Reprint No. 32.)

Having had success with the drug he recommends it in ague districts.

Ingles, J. A.

1878

Grindelia Squarrosa in Ague, etc.

New Prep., 2, p. 66., (Pharmacology Newer Mat. Med., p. 763.,
Reprint No. 32.)

He had success with *grindelia* in cases of ague.

Lenard, N. C.

1878

Grindelia Robusta in Coughs Generally

New Prep., 2, p. 47., (Pharmacology Newer Mat. Med., p. 751.,
Reprint No. 31.)

Recommends *grindelia* in cough remedies.

Munk, J. A.

1878

Grindelia Squarrosa in Splenic Hypertrophy

Am. Med. Jour., v. ., p. ., (New Prep., 1878, p. 17.,
Pharmacol. Newer Mat. Med., p. 758., Reprint No. 32.)

Reports success with *grindelia* in cases of splenic trouble.

Scott, J. J.

1878

Grindelia Robusta in Asthma

New Prep., 2, p. 37., (Pharmacology, Newer Mat. Med., p. 741.,
Reprint No. 31.)

Grindelia excelled other drugs and remedies in obstinate cases
of asthma.

Stewart, J. C.

1878

Grindelia Robusta in Asthma

New Prep., 2, p. 65., (Pharmacology Newer Mat. Med., p. 741.,
Reprint No. 31.)

Grindelia gave relief in asthma.

Walters, W. R.

1878

Grindelia Robusta in Asthma

New Prep., 2, p. 9., (Pharmacology Newer Mat. Med., p. 740.,
Reprint No. 31.)

States that he cured himself of asthma and also others with
use of *grindelia*.

Wilcox, W. A.

1878

Grindelia Robusta in Asthma

New Prep., 2, p. 9., (Pharmacology Newer Mat. Med., p. 740.,
Reprint No. 31.)

"If there is asthmatic breathing *grindelia robusta* assists
materially."

1879

Grindelia Robusta in Vaginitis

New Prep., 3, p. 29., (Pharmacol. Newer Mat. Med., p. 752.,
Reprint No. 31.)

The doctor upon a recommendation tries *grindelia* in burning
and itching vaginitis and reports relief.

Allport, F.

1879

Grindelia Robusta in Asthma and Rheumatic Affections

Med. Rec., 15, p. 594., (New Prep., p. 186., Pharmacol. Newer Mat. Med., p. 744., Reprint No. 31.)

Reports on a few cases of asthma and rheumatism as being relieved by *grindelia*.

Baker, E. S.

1879

Therapeutic Properties of *Grindelia Robusta*

Am. Med. Bi-Weekly, , p. ., (New Prep. 1879, p. 19., Pharmacology Newer Mat. Med., p. 734., Reprint No. 31.)

Received excellent results with *grindelia* as a remedial agent in coughs and bronchial trouble.

Bryce, C. A.

1879

Grindelia Robusta in Asthma

New Prep., 3., p. 113., (Pharmacology Newer Mat. Med., p. 743., Reprint No. 31.)

He was pleased with the results of *grindelia*.

Charity Hospital Blackwell Is., N. Y.

1879

Grindelia Robusta in Coughs Generally

New Prep., 3, p. 99., (Pharmacology Newer Mat. Med., p. 751., Reprint No. 31.)

Doctor at this hospital includes *grindelia* in his formulae for a cough remedy with great success.

Dodge, S.

1879

Grindelia Robusta in Hay Fever

New Prep., 3, p. 35., (Pharmacology Newer Mat. Med., p. 749.,
Reprint No. 31.)

He reports success with *grindelia* in eight cases of hay fever.

Easley, E. P.

1879

Grindelia Squarrosa in Ague, etc.

New Prep., 3, p. 306., (Pharmacology Newer Mat. Med., p. 761.,
Reprint No. 32.)

He reports four cases of various kinds as feverish headache, chills, etc., which were successfully relieved by using *grindelia*.

Elliott, C. E.

1879

Grindelia Squarrosa in Splenic Hypertrophy

New Prep., 3., p. 106., (Pharmacology Newer Mat. Med., p. 758.,
Reprint No. 32.)

He reports curing a miner who had given up, of a bad case of enlarged spleen.

French, P. A.

1879

Grindelia Squarrosa in Splenic Hypertrophy

New Prep., 3, p. 165., (Pharmacology Newer Mat. Med., p. 758.,
Reprint No. 32.)

He relieves a woman 51 years of age of enlarged spleen and ague chill by the use of *grindelia*.

Goldrich, William

1879

Grindelia Robusta in Pneumonia

New Prep., 3, 38., (Pharmacology Newer Mat. Med., p. 749.,
Reprint No. 31.)

Finds relief in using grindelia in pulmonary congestion.

Glenn, J. W.

1879

Grindelia Robusta in Asthma

New Prep., 3, 85., (Pharmacology Newer Mat. Med., p. 747.,
Reprint No. 31.)

Found Relief in taking grindelia for asthma.

Wasmer, C. H.

1879

Grindelia Robusta in Pertussis

Ark. Med. Journ., , p. ., (New Prep., 3, p. 44., Phar-
macology Newer Mat. Med., p. 750., Reprint No. 31.)

He recommends grindelia in Pertussis because he had success
with it.

Lloyd, J. U.

1879

Fluid Extract Grindelia Robusta

Eclec. Med. Jour., 39., p. 548.

Comments on the making of the fluid extract.

McDowell, L. C.

1879

Grindelia Squarrosa in Ague, etc.

Med. Brief., , p. ., (New Prep., 3, p. 318., Pharmacology
Newer Mat. Med., p. 762., Reprint No. 32.)

He relieved a coal miner of intermittent fever by the use of
grindelia.

Parsons, H. B.

1879

Grindelia Robusta in Phthisis

New Rem., 8, p. 109.

He states that no relief was given in asthma but considerable
relief was given in majority of cases of phthisis.

Pattee,

1879

Grindelia Robusta in Pertusis

New Prep., 3, p. 46., (Pharmacology Newer Mat. Med., p. 750.,
Reprint No. 31.)

Reports *grindelia* valuable in whooping cough.

Reed, B.

1879

Grindelia Robusta in Asthma

New Prep., 3, p. 12., (Pharmacology Newer Mat. Med., p. 743.,
Reprint No. 31.)

Reports relief in obstinate cases of asthma with *grindelia*.

Rother, R.

1879

Grindelia Robusta in Rhus Poisoning

New Rem., 8, p. 199.

He suggests that as it will soon be the season for poison by rhus that the physicians should get a supply of the reliable fluid extract of *grindelia* and try its effects.

Rothrock, J. T.

1879

Grindelia Robusta

New Rem., 9, p. 233.

He comments on the use of *grindelia* as a remedy for poison oak, and also states that he is skeptical as to its wide range of usefulness.

Steele, J. G.

1879

Report on the Drug Market of San Francisco, Cal.

Proc. Am. Pharm. Assoc., V. 5, p. 609.

Various species of *grindelia* are given as to their description, uses and habitat.

Stille, A., and Maist, J. M.

1879

Grindelia

Natl. Dispens., 2 ed., p. 695., Ibid., 3 ed., p. 748., Ibid., 5 ed., p. 795.

Description of allied species constituents, med. action, uses, dose, and preparations are discussed.

W. F. C.

1879

Grindelia Squarrosa in Ague, etc.

Med. Herald, V. , p. ., (New Prep., 3, p. 207., Pharmacology Newer Mat. Med., p. 762., Reprint No. 32., New Rem., 8, p. 256.)

Reports relieving chills and malarial headache with *grindelia*.

Yelvington, C. N.

1879

Grindelia Robusta in Asthma

New Prep., 3, p. 141., (Pharmacology Newer Mat. Med., p. 743., Reprint No. 31.)

One who had long suffered from hay fever found relief with using *grindelia*.

Curl, F. M.

1880

Grindelia Robusta in Asthma

Therap. Gaz., 4, p. 313., (Pharmacology Newer Mat. Med., p. 745., Reprint No. 31.)

He thinks *grindelia* is a useful drug.

Fuller, A. J.

1880

Grindelia Robusta in Asthma

Therap. Gaz., 4, p. 95., (Pharmacology Newer Mat. Med., p. 746., Reprint No. 31.)

He comments on how he uses *grindelia* and his success with it.

Harolson, J. M.

1880

Grindelia Robusta in Hay Fever

Therap. Gaz., 4, p. 331., (Pharmacology Newer Mat. Med., p. 749., Reprint No. 31.)

He states that he relieved himself of hay fever with grindelia and recommended its use by others affected.

Kinneor, H. H.

1880

Grindelia Robusta (Adulterations and Substitutions)

Therap. Gaz., 4, p. 8., (Pharmacology Newer Mat. Med., p. 733., Reprint No. 31.)

Reports success with grindelia and finds later that it had been adulterated or a substitution had been supplied.

Tehn, T.

1880

Reports of the Committee on the Drug Market

Proc. Am. Pharm. Assoc., 28, p. 372.

States that grindelia is a valuable California plant now official in the pharmacopea.

Mulherm, J. J.

1880

Grindelia Robusta in Asthma

Therap. Gaz., 4, p. 30., (Pharmacology Newer Mat. Med., p. 745., Reprint No. 31.)

Reports the success of grindelia as medicinal but warns against putting up grindelia in the wrong manner.

Remington, A. E.

1880

Grindelia Robusta in Asthma

Therap. Gaz., 4, p. 195 and 270., (Pharmacology Newer Mat. Med., p. 745., Reprint No. 31.)

Reports that *grindelia* seems to relieve asthma.

Blair, R. A.

1881

Grindelia Robusta in Asthma and Bronchitis

Therap. Gaz., 5, p. 289., (Pharmacol. Newer Mat. Med., p. 748., Reprint No. 31.)

He reports on the use of *grindelia* in various cases but with indifferent success.

Bundy, J. W.

1881

Grindelia Squarrosa in Splenic Hypertrophy

Calif. Med. Jour., , , (Therap. Gaz., 5, p. 37., Pharmacology Newer Mat. Med., p. 760., Reprint No. 32.)

He reports a success in using *grindelia* to cure splenic hypertrophy.

Editor

1881

Grindelia Robusta in Old Sore Legs

Eclec. Med. Jour., 41, p. 281.

In a reply to a letter he states what he would prescribe for ulcers in old sore legs, it being *grindelia robusta* in the tincture form.

Gibbons, H.

1881

Grindelia Robusta in Pertussis

Therap. Gaz., 5, p. 433., (Pharmacology Newer Mat. Med., p. 750., Reprint No. 31.)

Report on various cases in which *grindelia* was used is given.

Gibbons, H. P.

1881

Grindelia Robusta in Asthma

Pac. Med. and Surg. Journ., , p. ., (Therap. Gaz., 5, p. 431., Pharmacology Newer Mat. Med., p. 742., Reprint No. 31., New Prep., 1, p. 15.)

He reports relieving several cases of asthma by the use of *grindelia*.

Hicks, A. R.

1881

Grindelia Squarrosa in Splenic Hypertrophy

Therap. Gaz., 5, p. 411., (Pharmacology Newer Mat. Med., p. 760., Reprint No. 32.)

Reports success with *grindelia squarrosa* in a case of splenic enlargement.

Johnson, T.

1881

Grindelia

Medical Formulary, p. 199.

He states that it is used in rhus poisoning and gives a formula for a fluid extract, tincture and a mixture of *grindelia*.

Ketchum, A. H.

1881

Grindelia Robusta in Asthma

Therap. Gaz., 5, p. 54., (Pharmacology Newer Mat.Med., p. 746., Reprint No. 31.)

Reports success with grindelia in all his cases of asthma.

Lawrence, R. R.

1881

Grindelia Squarrosa in Ague, etc.

Therap. Gaz., 5, p. 50., (Pharmacology Newer Mat. Med., p. 763., Reprint No. 32.)

Finds this drug advantageous after the paroxysms have been broken up by the use of cinchona alkaloids.

Meeker, G.

1881

Grindelia Robusta in Hay Fever

Therap. Gaz., 5, p. 373., (Pharmacology Newer Mat. Med., p. 749., Reprint No. 31.)

Has success with grindelia in a bad case of hay fever.

Rochester, F. M.

1881

Grindelia Robusta in Asthma

Proc. Med. Soc. Co. Kings N. Y., , p. ., (Therap. Gaz., 5, p. 228., Pharmacology Newer Mat. Med., p. 746., Reprint No. 31.)

He has used a formula for asthma which includes grindelia and it has never disappointed him.

De La Vergne

1882

Grindelia Robusta in Asthma and its Complications

Therap. Gaz., 6, p. 158., (Pharmacol. Newer Mat. Med., p. 745., Reprint No. 31.)

Grindelia failed to relieve one of his cases of asthma.

Kinnett, M. E.

1882

Grindelia Robusta

Eclec. Med. Jour., 42., p. 71.

Comments on the fluid extract as to whether it should mix with water or not.

McCorkle, J.A.

1882

Grindelia Robusta in Asthma and its Complications

Therap. Gaz., 6, p. 158., (Pharmacology Newer Mat. Med., p. 736., Reprint No. 31.)

He finds it unsuccessful in spasmodic asthma.

Segar, H.

1882

Grindelia Robusta in Asthma and its Complications

Therap. Gaz., 6, p. 757., (Pharmacology Newer Mat. Med., p. 735., Reprint No. 31.)

In one case he used grindelia with marked success and another with no success at all.

Thallon, William

1882

Grindelia Robusta in Asthma and its Complications

Therap. Gaz., 6, p. 158., (Pharmacology Newer Mat. Med., p. 736., Reprint No. 31.)

He finds that *grindelia* is very serviceable in asthma complications.

Bombelon,

1883

Grindelia Robusta for Asthma

Zeitscher d. Allg. Oster. Apotheker Vereins., p. ..,
(Ther. Gaz., 7, p. 389., Med. Rec. 24, p. 280., N. Car. Med.
Jour. Jan. 1883., Am. Journ. Pharm., 55, p. 200.)

He recommends tobacco saturated with resin of *grindelia* to be smoked for asthma.

Firth, T. B.

1883

Grindelia Robusta in Asthma and its Complications

Therap. Gaz., 7, p. 104., (Pharmacology Newer Mat. Med., p. 737., Reprint No. 31.)

Reports his success with *grindelia* and gives several formulas for preparation of it.

Maisch, J. M.

1883

Grindelia Robusta

Am. Journ. of Pharm., 55, p. 566.

A description of the plant.

Moeller, J.

1883

Grindelia Robusta

Pharm. Centralh., 24, p. 219., (Am. Jour. Pharm., 55, p. 566.,
Proc. Am. Pharm. Assoc., 32, p. 155.)

He gives a microscopical and a physical description of this plant.

Skaro, J. G.

1883

Grindelia Robusta in Asthma

Therap. Gaz., 7, p. 11., (Pharmacology Newer Mat. Med., p. 748., Reprint No. 31.)

He reports the successful use of *grindelia*, together with the prescriptions he used.

Buffington, J. A.

1884

Action of *Grindelia Robusta* on the Heart and Circulation

Ejenedelnaia Klinitcheskaia Gazeta, 34, p. 535., (Am. Jour. Med. Sciences, 91, p. 262., Pharmacology Newer Mat. Med., p. 733, Reprint No. 31.)

He describes the physiological action of *grindelia*.

Editor

1884

Elixir *Grindelia Robusta*

Mest. Drugg., 6, p. 18.

In answer to a question he gives the formulae for an elixir and a few comments as to the appearance of the finished product.

Johnson, T.

1884

Grindelia

Med. Bot. N. Am., p. 176.

He mentions *grindelia robusta* and *squarrosa* as to description, habitat, part used, constituents, preparations, medical properties, and uses.

Oberg, . . and Wall, O. A.

1884

Grindelia

Companion to U. S. P., p. 539.

They list the origin, habitat, part used, description, constituents, medical use, and dose of the drug.

Smith, D. E.

1884

Therapeutic Properties of *Grindelia Squarrosa*

Med. Trib., , p. ., (Pharmacology Newer Mat., p. 755., Reprint No. 32.)

He states that marked benefits in cases of enlarged spleen were effected by *grindelia*.

Clark, N. T.

1885

Grindelia Robusta

Med. Age, , p. 537., (Drugg. Circ., 30, p. 31., Pharmacology Newer Mat. Med., p. 747., Reprint No. 31.)

He reports a cure for asthma by using *grindelia*.

Editor

1885

Grindelia

Drug. Circ., 29, p. 154.

He replies to a request, stating that he could not give details of the manufacture of grindelia fluid extract by the firm mentioned. But that the official formula was official in the U. S. P.

Editor

1885

Elixir of Grindelia

Drug. Circ., 29, p. 45.

Gives a formula for elixir of grindelia.

Editor

1885

Elixir of Grindelia

Drug. Circ., 29, p. 112.

The formula for elixir of grindelia taken from N. Y. and Brooklyn Formulary is given on the request of a reader.

Gotchell,

1885

Grindelia Robusta

Med. Times, N. Y., 13, p. , (Am. Jour. Pharm., , p. 559., Med. Age, 3, p. 144., Pharmacology Newer Mat. Med., p. 752., Reprint No. 31.)

Uses a lotion to stop itching and promote healing of mosquito and flea bites.

Marsch, J. M.

1885

Grindelia glutinosa

Am. Journ. Pharm., 57, p. 387.

Mentions the use of this drug in powder as a vulnerary in atonic ulcers, and decoction in lotions.

McCann, J. F.

1885

Therapeutic Properties of *Grindelia Robusta*

Med. Age, 3, p. 59., (Pharmacology Newer Mat. Med., p. 734., Reprint No. 31.)

He uses it in all his cough remedies and receives good results in cases of asthma.

Misner, A.

1885

Grindelia Robusta in Asthma

Med. Age, 3, p. 492., (Pharmacology Newer Mat. Med., p. 747., Reprint No. 31.)

He treated himself with *grindelia* for asthma and obtained relief.

Mossini, R.

1885

Grindelia Robusta in Asthma and its Complications

Corresponding Blatt fur Schweizer Aerzte., Aug. 15., (Pharmacology Newer Mat. Med., p. 735., Reprint No. 31.)

Its uses did not cure asthma but gave long standing relief.

Dabroklonsky

1886

Grindelia Robusta - Adulterations and Substitutions

St. Petersburg Deut. Medizin. Zeit., , p. ., (Med. Age, p. 494., Pharmacology Newer Mat. Med., p. 733., Reprint No. 31.)

He states that the ill effects of grindelia are due to adulterations.

Dabroklonsky,

1886

Physiological Action of Grindelia Robusta

Pharm. Jour., 16, p. 919., (Proc. Am. Pharm. Assoc., 34, p. 415.)

Reports that grindelia has a strong effect upon the heart but not so much as a diuretic.

Gray, A.

1886

Grindelia

Synoptical Flora of N. Am., V. 1, 2nd. ed., part 2, p. 118., (Proc. Am. Pharm. Assoc., 54, p. 370., Pharmacology Newer Mat. Med., p. 371., Reprint No. 31.)

The various species of grindelia are described and the habitat of each is given.

Grinenitsky

1886

Therapeutic Properties of Grindelia Robusta

Russkaia Meditz., 1, p. 11., (Pharmacology Newer Mat. Med., p. 734., Reprint No. 31.)

He praises grindelia for use in inveterate chronic bronchial catarrh.

James, M. E.

1886

Grindelia Pacifica

Bull. Torrey Bot. Club, IX, 31, p. 246., (Synoptical Flora North Am., V, 1, 2nd. ed., part 2, p. 119.)

Descriptions of the two species and their habitats are given.

Kellogg

1886

Grindelia Latifolia

Proc. Calif. Acad., 36, p. ., (Synoptical Flora N. Am., V. 1, pt. 2, p. 119.)

Description of this species of grindelia.

Wood, H. C., Remington, J. P., and Sadtler, S. P.

1886

Grindelia Robusta, Grindelia Squarrosa

U. S. Dispens. 15 ed., p. 725., Ibid., 19 ed., p. 600., Ibid. 20 ed., p. 534.

The article contains a description, medical properties, uses, part used, therapeutic activity, and dose.

1887

Grindelia Robusta in Asthma

New Prep. No. 1, p. 8, (Pharmacol. Newer Mat. Med., p. 739., Reprint No. 31.)

The party concerned having used most everything for asthma and upon recommendation of grindelia was skeptical of it, but tried it and found acure.

Bilhaut, M.

1887

Grindelia Robusta in Pertussis

Med. Age, p. 288., (Pharmacol. Newer Mat. Med., p. 756., Reprint No. 31.)

Reports on some cases in which *grindelia* helps and others in which it cures.

Constantin, P. M.

1887

The Therapeutic Properties of *Grindelia Robusta*

Pepert. de Pharm., 15, p. 440., (Pharmacology Newer Mat. Med., p. 733., Reprint No. 31.)

The habitat, dose and therapeutic properties of *grindelia* are given.

Editor

1887

Liquid Extract of *Grindelia*

Drugg. Circ., 31, p. 247.

Gives formula and directions for preparing the liquid extract.

Editor

1887

Grindelia

Pharm. Rec., 7, p. 371.

Gives synonyms, habitat, description, constituents, use and dose of *grindelia*.

Editor

1887

Elixir of Grindelia

Drug. Circ., 31, p. 123.

Formula and directions for the making of the elixir are given.

Dabroklonsky

1887

The Action of Grindelia Robusta on the Heart and Circulation

N. Y. Med. Journ., 45, p. 305., (Pharm. Rec., 7, p. 93., Pharmacology Newer Nat. Med., p. 372., Reprint No. 31.)

He describes the action of the drug on the heart and circulation.

Semple, W.

1887

Grindelia Squarrosa in Splenic Hypertrophy

Med. Age, 5, p. 160., (Pharmacology Newer Mat. Med., p. 757., Reprint No. 32.)

He has used grindelia for such a long time that he knows it is valuable in cases of splenic trouble.

Beauvois, J.

1888

Über den anatomischen Bau Von Grindelia Robusta

Ber. d. d. Bot. ges., 6, p. 403., (Am. Jour. Pharm., 61, p. 82., Proc. Am. Pharm. Assoc., 37, p. 455., U. S. Dispens., 19 ed., p. 601., Ibid., 20 ed., p. 534.)

The anatomical structure of grindelia robusta is described.

Clark, N. W. and John, F. T.

1888

Grindelia Robusta and *Squarrosa*

Am. Journ. Pharm., 60, p. 433., (U. S. Dispens., 19 ed., p. 601., Ibid., 20 ed., p. 535., Kings Am. Dispens., 18 ed., 3 rev., V. 2, p. 956., Proc. Am. Pharm. Assoc., 37, p. 456., Pharm. Rec. 8, p. 387.)

An analysis of *grindelia robusta* by Clark.

Fischer, J. T.

1888

A Proximate Analysis of *Grindelia Robusta*

Med. Herald, , p. .., (Pharm. Era, 2, p. 208., Proc. Am. Pharm. Assoc., 36, p. 342., Kings Am. Dispens., 18 ed., 3 rev. V. 2, p. 957., Am. Jour. Pharm., 60, p. 440., Pharm. Rec., 8, p. 387.)

He gives a proximate analysis of the constituents of this drug, also gives the characteristics of the alkaloids present.

Libby, G. T.

1888

A Proximate Analysis of *Grindelia Robusta*

Pharm. Era, 2, p. 11., (Kings Am. Dispens., 18 ed., 3 rev., 2, p. 956., Am. Journ. Pharm., 60, p. 434., Proc. Am. Pharm. Assoc., 36, p. 342.)

He gives a proximate analysis of *grindelia*.

Paul,

1888

Grindelia Robusta in Chronic Bronchitis

Deut. Med. Mach., 14, p. 118., (Am. Journ. Pharm., 60, p. 625)
Obtained good results with *grindelia* in chronic bronchitis.

Editor

1889

Grindelia Fluid Extract Precipitation

Mest. Drugg., 11, p. 215.

In answer to a question as to the nature of a precipitate in the fluid extract says that it is caused by resinous material. The addition of a little alkali would clear it up but it would hinder the medicinal value of the preparation.

Steele, J. G.

1889

Grindelia Robusta

Proc. Am. Pharm. Assoc., 37, pp. 226 and 244., (Pharm. Rev., 26, p. 237.)

Mentions the family only.

Greene, E. L.

1889 - 1892

Studies in the Compositae Grindelia

Pittonia, 2, p. 287., (Flora of N. Am., V. 2, p. 247.)

He gives a short account of the early history of grindelia.

Brubaker, A. P.

1890

The Physiological Action of Grindelia Robusta

Pharmacology of the Newer Mat. Med., p. 372, Reprint No. 31.

During the demonstration he found that grindelia was not actively toxic.

Bufalonii,

1890

Therapeutic Properties of Grindelia Robusta

Internationale Klinische Rundschau, p. ., London
Lancet, 1, p. 565., Pharmacology Newer Mat. Med., p. 734.,
Reprint No. 31.)

He recommends grindelia for irregular pulse and cardiac affections.

Editor

1890

Grindelia Robusta and Squarrosa

Mest. Drugg., 12, p. 299.

Comments on the substitution of robusta where squarrosa is prescribed and says that the two have different physiological action and that it is dangerous to substitute.

Kunkle, N. H.

1890

Extractum Grindeliae Fluidum

Am. Jour. Pharm., 62, p. 334., (Mest. Drugg., 12, p. 296.)

Tells how to make a fluid extract of grindelia.

Titchg

1890

Grindelia Robusta in Asthma

Proc. Wayne Co. Med. Soc., p. ., (Pharmacology Newer
Mat. Med., p. 741., Reprint No. 31.)

Reports success with grindelia in a case of asthma.

Parke Davis and Co.

1890

Grindelia Squarrosa

Pharmacology Newer Mat. Med., 754., Reprint No. 32.

A detailed account of *grindelia squarrosa* is given.

Parke Davis and Co.

1890

Grindelia Robusta

Pharmacology Newer Mat. Med., p. 731., Reprint No. 31.

A detailed account of *grindelia robusta* is given.

Editor

1891

Extract of *Grindelia* with Water

Drug. Circ., 35, p. 87.

Comments adversely on the use of water in preparing the extract, as it causes a precipitate of resinous matter and produces an unsightly preparation.

Clark, W. O.

1892

Grindelia Robusta

Northwest Jour. Homeop., V. , p. ., (Eclectic Med. Jour., 52, p. 134.)

Finds *grindelia* valuable in the secondary stages of bronchitis and pneumonia.

Editor

1892

Extract of Grindelia

Drug. Circ., 36, p. 14.

Comments upon the making of the official extract with a strong alcoholic menstruum as there is such a large amount of resin present in the drug.

Millsbaugh, C. F.

1892

Grindelia

Medicinal Plants, 1, p. 784.

Mentions this plant as the Artic American Grindelia.

Schenegans, A.

1892

Uber die Bestandtheile Von Grindelia Robusta

Jour. de Pharm. Elsass. Lathringen, 19, p. 133., (Am. Jour. Pharm., 64, p. 369., Proc. Am. Pharm. Assoc., 41, p. 639., U. S. Dispens., 19 ed., p. 601., Ibid., 20 ed., p. 535., Kings Am. Dispens., 18 ed., 3rd. rev., V. 2, p. 957.)

He gives an account of the constituents of grindelia.

Bocquillim, M. H.

1895

Grindelia Robusta Alcoholic Extract

Am. Drugg. and Pharm. Rec., 27, p. 68.

Gives data as to the alcoholic extract content.

Duhring,

1895

Alkaline Extract of Grindelia

Treatise on Diseases of the Skin, , p. ., (Am. Drug.
and Pharm. Rec., 27, p. 215.)

He states that grindelia is practically specific for rhus poisoning.

Editor

1895

Non Resinous Extract of Grindelia Robusta

Pharm. Zeit. fur Russ., 34, p. 314., (Am. Drugg. and Pharm.
Rec., 27, p. 6.)

Tells how to make a non resinous extract of grindelia.

Galen, "Jr."

1895

Alkaline Fluid Extract of Grindelia

Am. Drugg., 26, p. 215., (Proc. Am. Pharm. Assoc., 44, p. 419.)

He comments on an alkaline fluid extract of grindelia.

Linde, O.

1896

Grindelia Extractive Content

Am. Drugg. and Pharm. Rec., 29, p. 70.

Gives a table of the alcohol and water (7 to 3) extract of
the air dried and kiln dried grindelia.

1898

Grindelia

Med. Rem., , p. 394., (Pharm. Zeitg., 48, p. 574., U. S. Dispens., 19 ed., p. 601., Ibid., 20 ed., p. 535.)

The constituents of grindelia are listed.

Britton, . . and Brown, . . .

1898

Grindelia Habitat

Illustrated Flora of Northern States and Canada, V. 111, p. 321., (Proc. Am. Jour. Pharm., 54, p. 370.)

A description of the drug and its habitat is given together with a printed illustration.

Glossford, J.

1898

Grindelia Robusta, Proximate Constituents

Merks Report, 7, p. 394., (Proc. Am. Pharm. Assoc., 47, p. 539.)

He gives the proximate amount of the constituents and tells how the best extracts can be made.

Glossford, J.

1898

A Contribution to the Pharmacognosy of Grindelia Robusta

Mercks Report, 7, p. 362., (Proc. Am. Pharm. Assoc., 46, p. 812.)

He gives detailed account of the botany and histology and chemistry of grindelia. He also has microscopical drawings with descriptions.

Blayer, N. E.

1899

Grindelia Robusta

Eclec. Med. Jour., 59, p. 218.

Comments on the use of *grindelia robusta* in various diseases.

Felter, H. N. and Lloyd, J. U.

1900

Grindelia

King's Am. Dispens., 18 ed., 3rd. rev., V. 2, p. 956.

Data as to Botanical Source, history, description, chemical composition, action, medical use, dosage, specific indications, and uses are discussed.

Blayer, N. E.

1901

Grindelia Squarrosa

Eclec. Med. Jour., 61, p. 523.

Comments upon the therapeutical use of *grindelia squarrosa*.

Editor

1902

Water Soluble Extract of *Grindelia*

Bull. Pharm., 16, p. 439.

Editor in reply to a request by T. F. C. tells how to make a water soluble extract of *grindelia*.

Henkel, Alice

1904

Gum Plant

Bul. Bur. Plant Ind. U. S. Dept. Agr., No. 188, p. 28.

Gives the range, description, part used and prices of two species of grindelia, squarrosa and robusta.

Leister, N. T.

1904

Grindelia Squarrosa in Intermittent Fever

Am. Med. Jour., , p. ., (Eclectic Med. Jour., 64, p. 161.)

Reports the usefulness of grindelia as he has had success in seventy cases.

Cowperthwaite, A. C.

1905

Grindelia Robusta

Fr. Am. Inst. Homoeop., 61, p. 363., (Dig. Com. U. S. P. and N. F., 1905, p. 181.)

Gives reasons why he considers it valuable for asthma and also says it is valuable for rhus poisoning.

Eberle, E. G.

1905

Notes on Some Medicinal Plants of Texas

Proc. Am. Pharm. Assoc., 53, p. 304., (Dig. Com. U. S. P., 1905 p. 180.)

He mentions grindelia squarrosa as a medicinal plant of Texas.

Lloyd, J. U.

1905

Grindelia Robusta

Pharm. Rev., 23, p. 329., (Dig. Com. U. S. P. and N. F., 1905, p. 180.)

Mentions that *grindelia squarrosa* and *robusta* do not grow very abundantly in each other's locality so there is not much danger of mixing the two.

Nelson, B. E.

1905

An Analytical Scheme for the Microscopical Examination of Powdered Drugs.

Merck's report, 14, p. 72.

A detailed description of the microscopical examination of *grindelia*.

Power, F. B. and Iutin, F.

1905

Chemical Examination of *Grindelia*

Proc. Am. Pharm. Assoc., 53, p. 192., (Proc. Am. Pharm. Assoc. 55, p. 337., Am. Jour. Pharm., 79, p. 489., Am. Drugg. and Pharm. Rec., 51, p. 159., Dig. Com. U. S. P. and N. F., 1907, p. 261., Am. Pharm. Assoc., 1, p. 352.)

An article on the results of these two men's efforts on the chemical examination is given.

Greene, E. T.

1906

Grindelia Comporum and *Grindelia Cuneifolia*

Manual of the Botany of the Region of the San Francisco Bay, p. 171., (Proc. Am. Pharm. Assoc., 54, p. 372.)

Describes the various species native to the above region.

Henkel, Alice

1906

Grindelia Squarrosa and Robusta

Bull. Bur. Plant Ind., U. S. Dept. Agr., No. 89, p. 34.,
(Dig. of Com. U. S. P. and N. F., 1906, p. 304.)

A very short description of the plant and its habitat is given.

Perredes, P. E. F.

1906

*The Botanical Characters of Some
California Species of Grindelia*

Proc. Am. Pharm. Assoc., 54, p. 370., (U. S. Dispens. 20 ed.
p. 534, Dig. Com. U. S. P. and N. F., 1906, p. 304., Am.
Drugg. and Pharm. Rec., 49, p. 143.)

A detailed description of several species of *grindelia* is given.

Schneider, A.

1906

Grindelia

Merck's Report, 15, p. 95., (Dig. Com. U. S. P. and N. F.,
1906, p. 304.)

He mentions the various species used by the Indians.

Editor

1907

Grindelia

Drugg. Circ., 51, p. 319., (Dig. Com. U. S. P. and N. F.,
1907, p. 261.)

A comparison of the percentage of alcohol in the official
fluid extract as made by Stevens, A. B. and Caldwell, P.,
also three other manufacturers.

Farwell, O. A.

1907

Grindelia

Drugg. Circ., 51, p. 460., (Proc. Am. Pharm. Assoc., 56, p. 210., Dig. Com. U. S. P. and N. F., 1907, p. 261.)

Under the above name we received a small Calif. plant which was found to be in Calif. a "tarweed". The plant was 2-3 inches high and the inflorescence was very glutinous, giving it a faint resemblance to a very diminutive form of grindelia.

Heinrich, W.

1907

Grindelia

Half yearly Report, p. 12., (Dig. Com. U. S. P. and N. F., 1907, p. 261.)

He describes an oil obtained from grindelia by steam distillation.

Johnson, E. E.

1907

Grindelia

Pac. Pharm. 1, p. 414., (Dig. Com. U. S. P. and N. F., 1907, p. 261.)

Mentions it as a plant used by the Indians and early Spanish settlers of California.

Webster, T. H.

1907

Grindelia Robusta

Eclec. Med. Jour., 67, p. 68, 121, and 628., (Dig. Com. U. S. P. and N. F., 1907, p. 262.)

He gives an account of the various cases in which he used this drug. He also calls attention to its habitat.

Iunmann, O.

1908

Grindelia Robusta

Pharm. Zentrabl., 49, p. 457., (U. S. Dispens., 20 ed., p. 535.)

A microscopical examination of *grindelia* is given.

Perredes, B. E. I.

1909

Grindelia Comporum

Pharm. Jour., 83, p. 596 and 604., (U. S. Dispens., 20 ed., p. 535.)

He tells how several seeds were planted and when full grown for a comparison of the species of *grindelia*. He also gives an account of *grindelia* in New Jersey with illustrations.

Brookland, I. H.

1910

Grindelia Squarrosa

Merck's Rept., 19, p. 310., (U. S. Dispens., 20 ed., p. 534.)

He gives a very detailed account of *grindelia* with drawings, some from microscopical work.

Dare, J.

1910

Grindelia Robusta

Pharm. Post, 43, p. 645., (Am. Drugg. and Pharm. Rec., 58, p. 32.)

Describes *grindelia*.

Holm, I.

1910

Medicinal Plants of North America

Merck's Report, 19, p. 310., (Dig. Com. U. S. P. and N. F., 1910, p. 479.)

A detailed description of the internal structures of the vegetative organs, roots, stems and leaves, together with figures.

Lowall, C. H. and Bradshaw, H. A.

1910

Grindelia Robusta

Proc. Am. Pharm. Assoc., 58, p. 753., (Dig. Com. U. S. P. and N. F., 1910, p. 479.)

Ash content of grindelia given.

Editor

1911

Grindelia

Ther. Gaz., 35, p. 179., (Dig. Com. U. S. P. and N. F., 1911, p. 377.)

In reply to aquestion as to what is good for asthma, recommends several prescriptions, some of which contain grindelia.

Henkel, Alice

1911

Gum Plant

Bull. Bur. Plant. Ind. U. S. Dept. Agric. No. 219, p. 37., (Dig. Com. U. S. P. and N. F., 1911, p. 377.)

Gives a description, range, uses, of two species of grindelia, robusta and squarrosa.

Jepson

1911

Grindelia

Flora of Western and Middle Calif., p. 461., (Proc. Am. Pharm. Assoc., 54, p. 371.)

Describes various species of grindelia.

Lloyd, J. U.

1911

Grindelia

Bull. Loyd. Libr., No. 18, p. 45., (Dig. Com. U. S. P. and N. F., 1911, p. 377.)

A short account of the early history of grindelia.

Moffat, J. T.

1911

Grindelia

Hahnemann Month, 46, p. 299., (Dig. Com. U. S. P. and N. F., 1911, p. 377.)

States that grindelia causes pain in eyeballs running back to the brain.

Cartier, F.

1911 - 1912

Physiological Action of Grindelia

J. Am. Inst. Homoeop., 4, p. 380., (Dig. Com. U. S. P. and N. F., 1912, p. 298.)

He states that grindelia first quickens the pulse, later slows it.

Henkel, Alice

1912

Grindelia

Spatula, 19, p. 131., (Dig. Com. U. S. P. and N. F., 1913, p. 302.)

The official title, common name, habitat, description, and prices of grindelia are given.

Jackson, J.

1912

Grindelia Antidote

Chem. and Drugg., 80, p. 31., (Dig. Com. U. S. P. and N. F., 1912, p. 298.)

Grindelia is mentioned by him as an antidote for poison oak.

Riedel, J. D.

1912

Grindelia Robusta

Riedels Berchite, p. 51., (Dig. Com. U. S. P. and N. F., 1912, p. 298.)

The ash content of grindelia is given.

Swain, R. L.

1912

Grindelia

Drugg. Circ., 56, p. 63., (Dig. Com. U. S. P. and N. F., 1912, p. 298.)

He states that grindelia was named after the German scientist Grindel.

Editor

1913

Grindelia Robusta Ointment

Am. Drugg. and Pharm. Rec., 61, p. 237.

A prescription for an ointment with grindelia as a constituent and was found to be of use in poisoning by ivy.

Osborne, O. T.

1913

Grindelia

Jour. Am. Med. Assoc., 60, p. 1429., (Dig. Com. U. S. P. and N. F., 1913, p. 302.)

He mentions grindelia as one of the useless drugs to be found in the U. S. P. IX.

Editor

1914

Grindelia Comporum, Cuneifolia and Squarrosa

Am. Pharm. Assoc., 3, p. 383., (Dig. Com. U. S. P. and N. F., 1914, p. 297.)

A description of the above species of grindelia is given.

Remington, J. P.

1914

Abstract of Proposed Changes with
New Standards and Descriptions
Grindelia

Journ. Am. Pharm. Assoc., 3, p. 383.

An accurate description of the drug is given.

Zuffall, C. J.

1915

Grindelia Robusta and Squarrosa

Jour. Am. Pharm. Assoc., 4, p. 534., (Dig. Com. U. S. P. and N. F., 1915, p. 570.)

Describes species robusta and squarrosa.

Penick, S. P.

1917

Grindelia

Jour. Am. Pharm. Assoc., 6, p. 696., (Dig. Com. U. S. P. and N. F., 1917, p. 217.)

He states that in picking grindelia, the commercial article does not come within 50% of the U. S. P. standard.

Editor

1919

American Medicinal Plants, Grindelia Squarrosa

Eclec. Med. Journ., 19, p. 502., (Dig. Com. U. S. P. and N. F., 1919, p. 244.)

A description of the drug and a discussion of the therapeutic properties of both species is given here.

Ewe, G. E.

1919

Grindelia Robusta

J. Am. Pharm. Assoc., 8, p. 672., (Dig. Com. U. S. P. and N. F., 1919, p. 244.)

A report on the adulteration of grindelia.

Ewe, G. E.

1919

Grindelia Robusta

Proc. Penn. Pharm. Assoc., 42, p. 85., (Dig. Com. U. S. P. and N. F., 1919, p. 244.)

One lot of plants contained 30% of foreign plants, another 22% of stems.

Ewe, G. E.

1920

Grindelia Robusta

Proc. Penn. Pharm. Assoc., 43, p. 112., (Dig. Com. U. S. P. and N. F., 1920, p. 270.)

Comments on the adulteration of grindelia.

Rusby, H. H.

1920

Grindelia

J. Am. Pharm. Assoc., 9, p. 243., (Dig. Com. U. S. P. and N. F., 1920, p. 270.)

He states that the specification of the amount of extractive would go a long way toward obtaining uniformity of the drug.

Lloyd, J. U.

1921

Grindelia

Origin and Hist. of Pharm. Veg. Drugs and Chem. and Prep. with Bibliography, V. 1, p. 158.

The pharmacopeal history of grindelia is given.

Editor

1924

Grindelia

Eclec. Med. Jour., 84, p. 395.

The name, use, habitat, and dose is given.

Editor

1924

Grindelia Dropped from the X Revision of the Pharmacopoeia
Pharm. Era, 47, p. 260.

Comments on the drug being dropped from the X revision of the
U. S. P.

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15th ed. 1886
17th ed. 1894
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20th ed. 1918

U. S. P. 1880 Page 173

Grindelia

Grindelia

The leaves and flowering tops of Grindelia Robusta Nuttal (Nat. Ord., Compositae).

Leaves about two inches (5 centimeters) or less long, varying from broadly spatulate or oblong to lanceolate, sessile or clasping, obtuse, more or less sharply serrate, pale green, smooth, finely dotted, brittle; heads many flowered; the involucre hemispherical, about half an inch (12 millimeters) broad, composed of numerous imbricated, squarrosely-tipped scales; ray florets yellow, ligulate, pistillate; disk florets yellow, tubular, perfect; poppus consisting of about three rows of the length of the disk florets; odor balsamic; taste pungently aromatic and bitter.

Preparation: Extractum Grindelia Fluidum.

U. S. P. 1890 Page 203

Grindelia

Grindelia

The leaves and flowering tops of Grindelia Robusta Nuttall, and of Grindelia Squarrosa. Dunal (nat. ord. compositae)

Leaves about 5 cm. or less long, varying from broadly spatulate or oblong to lanceolate, sessile or clasping, obtuse, more or less sharply serrate, often spinosely toothed, or even laciniate-pinnatifid, pale green, smooth, finely dotted, thickish, brittle; heads many flowered, subglobular or somewhat conical; the involucre hemispherical, about 10 Mm. broad, composed of numerous imbricated, squarrosely-tipped or spreading scales; ray florets yellow, ligulate, pistillate; disk-florets yellow, tubular, perfect; pappus consisting of two or three awns of the length of the disk-florets; odor balsamic; taste pungently aromatic and bitter.

Preparation: Extractum Grindelae Fluidum.

U. S. P. 1900 Page 229

Grindelia

Grindelia

The dried leaves and flowering tops of Grindelia Robusta Nuttall, or of Grindelia Squarrosa (Pursh) Dunal (Fam. Compositae).

Leaves about 5 Cm. or less long, varying from broadly spatulate or oblong to lanceolate, sessile or clasping, obtuse more or less sharply serrate, often spinosely toothed, or even laciniate-pinnatifid, pale green, smooth, finely dotted, some-what conaceous, brittle; heads more or less resinous-viscid, many flowered, either conical-urceolate (G. Squarrosa), or depressed-urceolate (G. Robusta); the involucre hemispherical, about 10 Mm. broad, composed of numerous imbricated squarrosely tipped or spreading scales; ray florets yellow, ligulate, pistillate, sometimes absent; disk florets yellow, tubular, perfect; poppus of two or three mostly unequal owns about the length of the disk-florets; odor balsamic; taste pungently aromatic and bitter.

Average dose: 2 Gm. (30 Grains)

U. S. P. 1910 Page 209

Grindelia

Grindelia

Grindel

The dried leaves and flowering tops of Grindelia Comporum Green, or Grindelia Cuneifolia Nuttall, or Grindelia Squarrosa (Pursh) Dunal (Fam. Compositae), without the presence or admixture of more than 10 per cent. of stems or other foreign matter.

Stems with attached branches and terminated with resinous flower-buds; stems cylindrical, not exceeding 2 mm. in diameter; light yellow or rose-colored, with alternate leaf-scars, occasionally with basal portions of leaves, sometimes more or less irregularly flexuous and coated with resin, especially at the nodes; leaves usually separate and more or less broken and varying in shape when entire from oblong and lanceolate to oblanceolate-spatulate and cuneate-spatulate, from 1 to 7 cm. in length, mostly sessile or amplexicaul and more or less sharply serrate or evenly spinosely-toothed, pale yellow to yellowish-green, very resinous, somewhat caraceous and brittle; bracts of flowering branches almost entire and usually more or less spreading; heads more or less resinous, viscid, many-flowered, either conical-urceolate

or depressed-urceolate, involucler from 5 to 20 mm. in breadth, composed of numerous imbricated bracts with more or less recurved tips; ray flowers yellow, ligulate and pistillate; disk florets yellow, tubular and perfect; poppus of two or three mostly unequal linear awns about the length of the disk florets; disk ocheres more or less ovoid or oblong; more or less compressed or triquetrous, and either biauriculate or broadly unidentate or with a broad truncate, corky, thickened summit; odor balsamic; taste aromatic and bitter, resinous.

The powder is yellowish-brown; consisting of numerous fibrous fragments made up of tissues of the stem, the most prominent being the tracheae with annular and spiral thickenings or marked with simple or bordered pores, associated with numerous, narrow, strongly lignified wood fibers; pith cells more or less tubular and containing a layer of protoplasm in which are embedded numerous spherical granules; fragments of epidermis of leaves very characteristic and showing more or less polygonal areas containing large chloroplastids, and the large, colorless basal cells of the multicellular glandular hairs; pollen grains spherical, about 0.035 mm. in diameter, spinose.

Preparation - Fluid extractum Grindeliae

Average Dose - Metric, 2 Cm. - Apothecaries, 30 grains

Summary of Data of U. S. P. 1820-1910 & N. F. IV

Grindelia

Official in U. S. P. 1880, '90, 1900, '10

Official Latin Title

Grindelia '80-'90-'00-'10

Official English Title

Grindelia '80-'90-'00-'10

Official Abbreviation

Grindel. '10

Official Synonyms

None

Botanical Name

Grindelia robusta '80

Grindelia Robusta & Grindelia Squarrosa '90-'00

Grindelia Cumporum, Grindelia Cunifolia, or Grindelia
Squarrosa '10

Family Name

Compositae '80-'90-'00-'10

Part Used

Leaves and flowering tops '80-'90

Dried leaves and flowering tops '00-'10

Description

See Sheets

APPROVED BY W O Richtmann

DATE Asst. Prof. of Pharmacognosy