

**A new and improved utilization of liquorice and other ingredients for the manufacture of certain medicinal compounds / [Edward Mandall].**

**Contributors**

Mandall, Edward.  
Barker, Reginald W.

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Wellcome Collection  
183 Euston Road  
London NW1 2BE UK  
T +44 (0)20 7611 8722  
E [library@wellcomecollection.org](mailto:library@wellcomecollection.org)  
<https://wellcomecollection.org>



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PROVISIONAL SPECIFICATION.

A New and Improved Utilization of Liquorice and other Ingredients for the Manufacture of Certain Medicinal Compounds.

I, EDWARD MANDALL, Tower Works, Stockton on Tees, in the County of Durham, Chemist do hereby declare the nature of this invention to be as follows :—

I take a strong decoction of the best liquorice root, and after prolonged boiling strain the same; the strained product is then evaporated in suitable vessels until reduced to the condition of a liquid extract. I further take a quantity of Irish or Iceland moss and boil it for a considerable time in steam-jacketed pans until it forms a thick mucilage after being strained and cooled to 60° Fahren. I also use a proportion of gum arabic, which is boiled carefully in steam pans, until perfectly dissolved, then strained through a fine sieve and this solution I mix with the above mucilage of Irish or Iceland moss, and add in proper proportions the liquid extract of liquorice named above, and chemically pure glycerine, forming a smooth demulcent mixture. I further add to the above mixture the following drugs in proper officinal doses, chloroform, and morphine acetate, syrup of squills, camphor, syrup of marshmallow, ipecacuanha wine or antimonial wine; these when thoroughly mixed by long agitation with the distillate from star aniseeds, gum benjamin, make a liquid medicinal compound which possesses the valuable properties of the above named medicines in an effective and convenient form.

I farther make an improved medicinal lozenge or jujube by exposing the above-named liquid medicinal compound in shallow vessels, to dry warm air in a chamber heated to 120° Fahrenheit.

Dated this Twenty-second day of March 1893.

EDWARD MANDALL.

COMPLETE SPECIFICATION.

25 A New and Improved Utilization of Liquorice and other Ingredients for the Manufacture of Certain Medicinal Compounds.

I, EDWARD MANDALL, of Tower Works, Stockton on Tees, County of Durham, Chemist, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement :—

I take a strong decoction of the best liquorice root and after prolonged boiling strain the same, the strained product is then evaporated in suitable vessels until reduced to the condition of a liquid extract. I further take a quantity of Irish moss and boil it for a considerable time in steam jacketed pans until it forms when strained and cooled to 60° Fabr. a thick mucilage.

I also use a proportion of gum arabic, which is boiled carefully in steam-jacketed pans until perfectly dissolved then strained through a fine sieve, and this solution I mix with the above mucilage of Irish moss, and add in proper proportions the liquid extract of liquorice described above, and chemically pure glycerine, forming a smooth demulcent mixture.

I further add to the above named mixture the following drugs in proper officinal doses,—chloroform and morphine in the form of chlorodyne B.P., syrup of

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squills, syrup of marshmallow and ipecacuanha wine or antimonial wine, oil of aniseed, spirit of camphor and benzoic acid; these when thoroughly mixed together by long agitation make a liquid medicinal compound which possesses the valuable properties of the above named medicines in an effective and convenient form. 5

In order that the above statement may be readily understood I will now give the formula I prefer to use :—

R/					
	Ext. Glycyrrh. Liq.	-	-	-	3 i
	Mucil. Acaciæ	-	-	-	3 ii
	" Lich. Hibern.	-	-	-	3 ii
	Glycerin. Pur.	-	-	-	3 ii
	Tr. Chloroform. et Morphinae B.P.	-	-	-	3 iii
	Syr. Scillæ	-	-	-	3 vi
	" Altheæ	-	-	-	3 ii
	Vin. Antim.	-	-	-	3 iss
	" Ipecac.	-	-	-	3 iss
	Ol. Anisi	-	-	-	ʒ i
	Spt. Camphor.	-	-	-	ʒ ss
	Acid. Benzoic.	-	-	-	gr. iss
	Aquæ ad	-	-	-	ʒ viii
					M.S.A.

I further make an improved medicinal lozenge or jujube by exposing the aforementioned compound in shallow vessels to dry warm air in a chamber heated to about 120° Fahrenheit. 25

The said medicinal compounds are intended for the cure of coughs, colds, hoarseness, and bronchitis, by their therapeutical and mechanical action.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is :— 30

The utilization of liquorice and other ingredients for the manufacture of certain medicinal compounds substantially as described.

Dated this 21st day of December 1893.

REGINALD W. BARKER,  
Applicant's Agent. 35





