

Bioactive extracts from therapeutic muds or peat - by pressure filtration under an inert atmosphere

Abstract

Therapeutic (pelogenic) extracts are prepd. from sapropelic muds and peat, for the treatment of various illnesses, by carrying out the filtration under vacuum and under a protective inert gas atmos. to avoid oxidn., the mud being placed in a completely sealed dish and pressed against the filter material by means of the inert gas at a pressure of 3-6 atmos.

Classifications

■ **A61K35/10** Peat; Amber; Turf; Humus

DE2432764A1

Germany

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Current Assignee : BIOFARM FAB MEDICAMENT

Worldwide applications

1974 [DE](#)

Application DE2432764A events ②

1974-07-08 Application filed by BIOFARM FAB MEDICAMENT

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1976-01-22 Publication of DE2432764A1

Status Pending

Info: [Cited by \(1\)](#), [Similar documents](#), [Priority and Related Applications](#)

External links: [Espacenet](#), [Global Dossier](#), [DPMA](#), [Discuss](#)

Claims (4)

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translated from German

Title: "Procedure and Apparatus to obtain the peloid extract Obtaining a peloid extract from sapropelian mud or peat Filtering or extracting, characterized in that - in order to avoid a Oxidation of the sludge during the filtration process - filtration in the absence of air and takes place under the protection of an inert gas, in particular of CO2, wherein a Overpressure in the protective gas atmosphere of 3-6 atü is applied. 2. The method according to claim 1, characterized in that below a filter plate, over which the sludge or peat mass to be filtered in the protective gas atmosphere is entered under excess pressure, a vacuum is applied. 3. Device for performing the method according to claims 1 and 2, characterized in that it consists of a cylindrical container (1), mounted in a pressure chamber (2), the upper part by one on three feet resting lid is closed with an inlet opening for the gas and is provided for regulating the pressure and has a collecting recipient that is in connection with a vacuum source. 4. Device for performing the method according to claims 1-3, characterized in that a filter plate provided with fine through-holes (4) is provided, under which a collecting funnel opening into a collecting vessel (9) is arranged and above which a pressure chamber (2) with its free lower Edge is placed on the edge, which has a connecting piece (b) for a protective gas and a pressure relief valve (c), wherein collecting funnel (9), filter plate (4) and pressure chamber (2) by means of the outer circumference of the pressure chamber (2) on the one hand and below the filter plate (4) or on the outer circumference of the collecting funnel (9) on the other hand attacking ring (5) and support plate (8)> and inserted through them Screw bolts (6) can be clamped together airtight with nuts (7). Blank page

Description

translated from German

Method and device for obtaining the peloid extract The invention relates to a method and a device for obtaining the peloid extract from medicinal mud and peat to a usable product, in the form of pharmaceuticals Products for the treatment of various forms of rheumatism and numerous other diseases.

The healing mud or peloids have been known since ancient times are used for medical treatments in an empirical way, in the form of Wrapping or lubrication with mud and only in special bathing establishments and under arduous and costly procedures that occur at summer time require specially specialized staff; the effectiveness of these treatments with mud is limited to a small number of diseases and has many Contraindications. It is believed that the treatments have beneficial effects Muds primarily have their characteristic physical and mechanical properties Thanks to hydropexy and thermopexy, electrical conductivity and the Plasticity, etc., and only in a very small proportion chemical composition, because on the one hand the penetration through the day very much is weak and, on the other hand, strongly restrained the releasable elements of the sludge - by absorption of the fine colloidal and solid granules of the sludge.

The peloids consist of an intimate mixture of three states; the solid state, formed from fine and organic mineral grains, equal a solid framework of the mud; the colloidal state, formed from l-; lineralkQlloidell and from organic colloids of the sludge; the liquid state, from the complex water-based solution is formed, which contains all the soluble components that are are in the natural state of the sludge in the solution; soaked the solution the mud and fills the gaps between the fine grains of mud.

There are different ways of extracting the liquid state from the sludge Procedure has been proposed.

For example, according to a known method, this is done The muddy earth was put in linen bags that were placed at a certain height above vessels be hung on, into which the liquid part drains. This procedure has the Disadvantage that the process takes a long time, it provides the product for oxidation and as a result leads to a change in the chemical composition and allows not the extraction a preparation of that normal chemical Womposition, which for the liquid state of the mud and the rush properties are characteristic.

Another method is to obtain the extract by introducing it of the sludge or a mixture of sludge soil and distilled water in cone-shaped bags made of dense fabric, mounted on square frames9 with weights be weighted, whereby the liquid components are squeezed out.

This procedure leads to a standard product, but has the Disadvantage of a change in the chemical content due to the liquefaction of the peloid Mass - under the influence of atmospheric air.

One still knows devices of different constructions, which the dispute achieve by hydraulic pressure, but which also have the disadvantage that they cause an oxidation of the liquid state of the sludge.

The method and apparatus according to the invention eliminate these above-mentioned disadvantages in that the inactivation of the biostimulatory Components of the liquid phase, i.e. to avoid degradation of the activating part and at the same time shortening the time required to extract the sludge is introduced into a vessel that is inside a pressure chamber locked in is; the vessel is provided with a filter plate with fine openings, which with Filter paper is covered. The liquid is emptied by introducing it of carbonic acid under a pressure of 3-6 atmospheres into the chamber and by applying a negative pressure in the collection vessel; the resulting liquid is in a funnel collected, which is provided under the plate.

The following is an embodiment of the device according to the invention described with reference to the drawing.

The drawing shows a vertical section through the filter apparatus, by means of which, according to the invention, a peloid extract from the input into the apparatus Mud and bog mass is obtained. The filter apparatus has a cylindrical shape Receiving vessel which is inserted into a pressure chamber 2.

The pressure chamber has a cover or a top wall A, in the top an opening or a connection piece b for introducing carbon gas or carbon dioxide Via connection line 12 and an opening c or a closing element for pressure relief are provided.

The pressure chamber 2 is open at the bottom and is supported (by means of a circular Set 3) on a filter plate 4 provided with fine holes, which covers the bottom of the receptacle forms.

A collecting funnel 9 is provided under the filter plate 4, which opens into a collecting vessel 10. The filter plate 4 and the collecting funnel 9 are inserted into a support plate 8 or a support ring and held by this.

The pressure chamber 2 is surrounded by a ring 5 or flange.

The arrangement is held together by means of screws 6 with screw nuts 7: When the nuts 7 are tightened, the support ring 8 is against the edge of the filter plate 4 and this edge pressed against the lower edge of the pressure chamber 2, so that So the interior of the pressure chamber 2 and the collecting funnel 9 in airtight manner the outside space is complete.

The extraction by means of the device described takes place under Overpressure in a protective gas atmosphere, namely carbon dioxide via line 12 is entered, whereby the pressure is gradually increased from 0.5 atü to 3-6 atü.

A connection line 13 for vacuum opens into the collecting vessel 10 by a negative pressure in the collecting vessel and thus also in the collecting funnel below the filter plate; to speed up the filtration.

The chamber 2 together with the filter plate 4 and the support plate 8, unite fastened by the screws 6 and the nuts 7 are upright through get the support legs.

To preserve the extract, the sludge is outside the pressure chamber 2 piled in the collecting vessel up to one height of about 15 cm; then the vessel 1 is introduced into the pressure chamber 2 and then the entire furnishings by fastening the screw center 7 somewhat airtight made. In this position, the chamber 2 is supplied with carbon dioxide by a Line 12, which connects the acid tube through opening b of the lid the chamber 2 with carbonic acid, produces pressure at 3-6 atmospheres; the pressure will gradually increased from about 0.5 atmospheres to the final value.

To shorten the filtering time, the recipient 1 can be marked with a Vacuum pump can be connected.

To the oxidation of those associated with the sludge or the extract To avoid coming components, the material from which the metallic Components are made of non-oxidizing steel.

The method and the device offer the following - according to the invention Advantages to: - They allow the manufacture of a product that is all therapeutic Properties of the mud has no corresponding contraindications and inconveniences.

- The product allows a perfect treatment of various Diseases and for a greater number of sick people than those with the corresponding Lot of mud treated can be.
- The treatments with mud extract can easily be done by yourself Apartment of the Krnaken run and at any time of the year.
- Treatment with the extract brings real economy and profit compared to the treatments with muddy soil or other remedies.

Cited By (1)

Publication number	Priority date	Publication date	Assignee	Title
WO1994018957A2 *	1993-02-26	1994-09-01	Ina Levi	Use of active substances in the therapy of certain diseases, process for preparing a pharmaceutical composition for that purpose and pharmaceutical compositions thus prepared
Family To Family Citations				


* Cited by examiner, † Cited by third party, ‡ Family to family citation

Similar Documents


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DE4215637A1	1993-11-18	Shaking of liq., paste or bulk medium
DE918404C	1954-09-27	Process for the manufacture of a vaccine for the treatment of the paralysis that remains after child paralysis
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DE894648C	1953-10-26	Method for debittering lupins, soybeans or the like.
DE930580C	1955-07-21	Process for the preparation of therapeutically active agents from peloids


Priority And Related Applications



Priority Applications (1) 











Application	Priority date	Filing date	Title
DE2432764A	1974-07-08	1974-07-08	Bioactive extracts from therapeutic muds or peat - by pressure filtration under an inert atmosphere

Applications Claiming Priority (1) 

Application	Filing date	Title
DE2432764A	1974-07-08	Bioactive extracts from therapeutic muds or peat - by pressure filtration under an inert atmosphere

Concepts 

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Name	Image	Sections	Count	Query match
 extract		title,claims,abstract,description	12	0.000
 peat		title,claims,abstract,description	5	0.000
 therapeutic		title,abstract,description	3	0.000
 bioactive		title	1	0.000
 pressure filtration		title	1	0.000
 filtration		claims,abstract,description	6	0.000
 protective		claims,abstract,description	5	0.000
 inert gas		claims,abstract	3	0.000
 sludge		claims,description	13	0.000
 method		claims,description	6	0.000

carbon dioxide	claims,description	4	0.000
carbon dioxide	claims,description	4	0.000
oxidation	claims,description	4	0.000
oxidation reaction	claims,description	4	0.000
gas	claims	4	0.000
regulatory	claims	1	0.000
resting	claims	1	0.000
disease	abstract,description	4	0.000
material	abstract,description	2	0.000
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