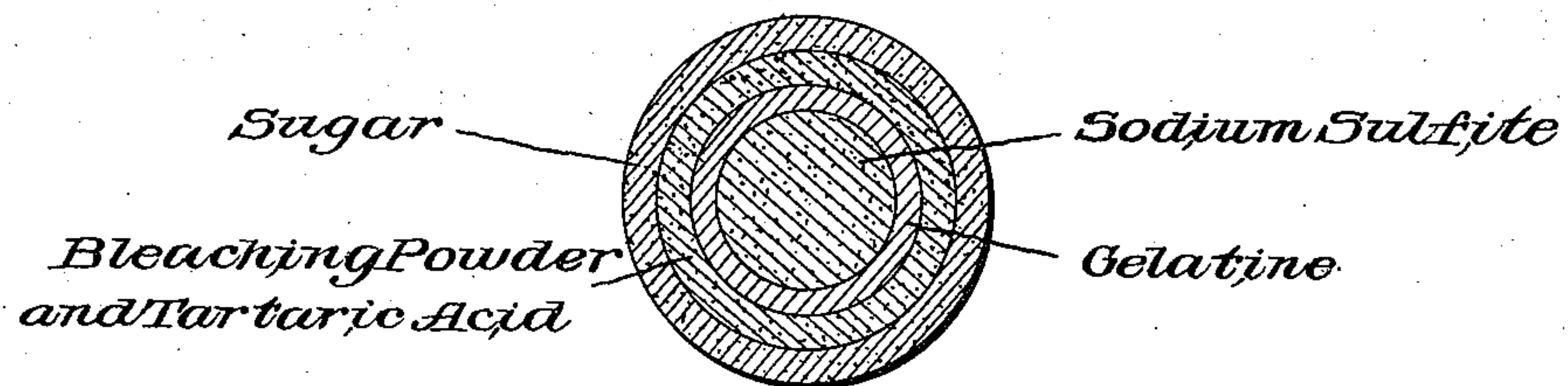


No. 871,612.

PATENTED NOV. 19, 1907.

V. B. NESFIELD.
STERILIZING TABLET.
APPLICATION FILED JAN. 2, 1904.



Witnesses

Geo. A. Byrne.
Samuel C. Turley.

Inventor

V. B. Nesfield.
By *Wilkinson & Licker*
Attorneys.

UNITED STATES PATENT OFFICE.

VINCENT BLUMHARDT NESFIELD, OF EALING, LONDON, ENGLAND.

STERILIZING-TABLET.

No. 871,612.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed January 2, 1904. Serial No. 187,564.

To all whom it may concern:

Be it known that I, VINCENT BLUMHARDT NESFIELD, physician and surgeon, lieutenant Indian Medical Service, a subject of the King of Great Britain, residing at 2 Madeley road, Ealing, in the county of London, England, have invented certain new and useful Improvements in Sterilizing-Tablets, of which the following is a specification.

10 This invention consists of a tablet for the sterilization of water and other liquids, and of alimentary substances, to render the same potable or edible.

It has been designed particularly for the 15 sterilization of contaminated water, quickly, efficiently and without filtration, although it may be used in conjunction with filtration if desired. The active agent in this sterilization is nascent chlorin which is set free as the 20 tablet dissolves, and is afterwards neutralized by the action of the material contained in the center of the tablet.

In the accompanying drawing the figure represents in cross section one of my improved tablets.

25 The core of this tablet is composed of sodium sulfite around which is placed a layer of gelatin. Around the gelatin layer is located a layer composed of bleaching powder and 30 tartaric acid powder mixed together and the whole is inclosed in a readily soluble coating, such as sugar. When this tablet is placed in

the water the sugar coating readily dissolves, and then the tartaric acid acts upon the bleaching powder, setting free nascent 35 chlorin, which sterilizes the water. As the tablet still further dissolves the layer of gelatin gradually disappears, and when the sodium sulfite is dissolved it neutralizes whatever chlorin there may be in the water or 40 other substance treated, forming common salt.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is 45

1. A sterilizing tablet composed of an outer protective coating, a layer of two substances, which, when dissolved, will react upon each other and evolve chlorin, a core containing a neutralizing agent for said 50 chlorin, and a soluble layer separating the two last named components, substantially as described.

2. A sterilizing tablet composed of an outer coating of sugar, a layer of bleaching 55 powder and tartaric acid, a layer of gelatin inside of said first named layer, and a core of sodium sulfite, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

VINCENT BLUMHARDT NESFIELD.

Witnesses:

HENRY BIRKBECK,
H. D. JAMESON.