

UNITED STATES PATENT OFFICE.

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MEDICAMENT FOR TREATING DISEASES OF THE STOMACH AND INTESTINES.

No Drawing.

Application filed March 24, 1926. Serial No. 96,943.

My invention relates to medicaments for treating diseases of the stomach and intestines and has for its object to provide an improved medicament for this purpose.

According to this invention there is provided a medicament which contains methyl-atropine-bromide mixed with substances having an anæsthetic action, for example p-amidobenzoic-acid-ethyl-ester and oil of peppermint, which medicament is adapted not only for use in treating diseases of the stomach and intestines, but also for use in removing trouble in the region of the vegetative nervous system.

Methyl-atropine-bromide exercises a soothing action which is increased by the addition of substances having an anæsthetic action. It is very important that the said atropine preparation is characterized in that, on the one hand, it is decidedly less poisonous than the other atropine derivatives and especially so than atropinum sulfuricum which is most frequently used in medicine, and further in that when it is applied in the customary doses usual all those disagreeable poisonous effects which are connected with the use of the sulphate atropine, such as e. g. accommodation troubles, severe dryness in the neck, thirst, are entirely absent.

The anæsthetizing components in the combination are so selected as to dose and chemical composition that, as my tests have shown, no inflammation of the sensitive mucous membrane is caused, and poisoning effects are quite impossible with the doses proposed by me. The local anæsthetic action is made up of three components: firstly methyl-atropine-bromide, as is also the case with the sulphate atropine, exerts a slight local anæsthetic action quite apart from the fact that central analgesic effects are especially peculiar to it. Secondly the intended local anæsthesia is produced especially by the almost insoluble p-amido-benzoic-acid-

ethyl-ester. To these actions there is added, thirdly, the slightly anæsthetizing, hyperæmizing and simultaneously disinfecting effect of oil of peppermint.

These three substances are made up in tablet form together with the usual neutral filling materials, and the tablets are so dosed that each contains as effective constituent parts 0.5 milligram atropinum-methyl-bromatum, 0.1 gr. amido-benzoic-acid-ethyl-ester, and $\frac{1}{4}$ drop of oil of peppermint.

These tablets can be used reliably and in many ways with respect to alleviating pain, limiting secretion, diminishing hypertonus and hyperperistaltic of the stomach, the sovereign spasmolytic action on the stomach intestines and gall-bladder and other organs with smooth muscles, and the stimulating action on the peristaltic of the intestinal canal, and their action makes the same an exceedingly valuable medicament which is certainly superior to atropinum sulfuricum in the therapy of abdominal diseases, particularly because the new medicament has been found to be considerably less poisonous than the sulphate atropine and it is quite free from disagreeable accompanying effects when used in doses that come into question therapeutically.

I claim:

1. As a new article of manufacture, a medicament, for the purpose described, comprising methyl-atropine-bromide mixed with p-amido-benzoic-acid-ethyl-ester and oil of peppermint.

2. As a new article of manufacture, a medicament in tablet form, for the purpose described, comprising 0.5 milligram methyl-atropine-bromide, 0.1 gr. amido-benzoic-acid-ethyl-ester, $\frac{1}{4}$ drop of oil of peppermint and a neutral filling material.

Signed at Bern, this 10th day of March, 1926.

DR. MED. AUGUST FISCHER.