

UNITED STATES PATENT OFFICE

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ANALGESIC COMPOSITION

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This invention relates to an analgesic composition and more particularly to an improved analgesic composition of the non-narcotic type having relatively minor cerebral stimulating effect.

It has been shown in the past that several vasoconstrictors of the pressor amine type have ability of increasing the analgesic effect of various non-narcotic analgesics of the antipyretic type, noting U. S. Pat. No. 2,427,887. However, it has been found that while compositions of this nature are in fact highly useful for their analgesic action, they exert a strong cerebral stimulating effect, producing anxiety, restlessness and insomnia in the patient.

Therefore, it is an object of my invention to potentiate the analgesic action of the non-narcotic analgesics so that a minimal dosage will provide the desired analgesic effect.

It is a further object of my invention to potentiate said analgesic action by means of a composition that will not substantially raise the blood pressure, increase the heart rate, raise the blood sugar, disturb the vision, produce anxiety, restlessness, insomnia or other symptoms of cerebral stimulation.

I have been able to accomplish the aforementioned objects by combining as essential ingredients of the composition an analgesic of the non-narcotic type and the pressor amine N-methyl-omega-phenyl-tertiary-butyl amine or non-toxic salts thereof.

In such a combination, it has been found that the addition of moderate amounts of pressor amine to a normal dosage of the analgesic synergistically potentiates the pain relieving power of the analgesic to an extent that would not be expected from a knowledge of the properties of the two substances. Moreover, the increased analgesic effect is not accompanied by any substantial symptoms of central cerebral stimulation, nor on the other hand does the pressor amine potentiate the general depressing action of the benzenoid analgesics. Therefore, such a combination provides the desired relief from pain with no untoward effects of stimulation or depression, enabling use of the analgesic composition of this invention before retiring or the administration of massive doses large enough to prevent severe pain without undue stimulation or depression during the day.

As examples of the analgesics contemplated by the invention are the non-narcotic analgesics of the benzene series such as acetylsalicylic acid, acetanilid, phenacetin, salicylamid, and the sa-

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licylates; phenyl cinchoninic acid; and similar compounds having like physiological action.

In the preferred embodiment of my invention, the salts of N-methyl-omega-phenyl-tertiary-butyl amine are used and as a particular preference, the sulfate salt of the amine.

The composition may be used in any suitable form, such as powders, tablets or solutions, or in combination with various well-known extenders, binders or other excipients. Moreover, the active ingredients may be present in various mixtures of analgesic compounds or with other ingredients such as sedatives or antispasmodics.

In general, the ingredients of the composition will be used in proportions within about the board range:

Non-narcotic analgesic	Mg.
Pressor amine salt	50-500
	2.5-30

and in the preferred embodiment of my invention the pressor amine salt will be used in about the range of 5-15 mg. However, varying doses have been found effective for different conditions and I do not limit my invention to the ranges specified above.

Listed below are several examples of formulations that have been tried and found effective:

Example I

Acetylsalicylic acid	Mg.
N - methyl - omega - phenyl - tertiary - butyl	325
amine sulfate	5

Example II

Acetylsalicylic acid	Mg.
Phenacetin	195
N - methyl - omega - phenyl - tertiary - butyl	195
amine sulfate	10

Example III

Acetanilid	Mg.
N - methyl - omega - phenyl - tertiary - butyl	300
amine sulfate	5

Example IV

Phenacetin	Mg.
N - methyl - omega - phenyl - tertiary - butyl	300
amine sulfate	5

Example V

Salicylamid	Mg.
N - methyl - omega - phenyl - tertiary - butyl	50°
amine sulfate	5

I claim:

1. An analgesic comprising, in combination, acetylsalicylic acid and a non-toxic salt of N-methyl - omega - phenyl - tertiary - butyl amine wherein said non-toxic salt increases the analgesic effect of the analgesic while producing no substantial symptoms of central cerebral stimulation.

2. An analgesic composition comprising, in combination, the analgesic, acetylsalicylic acid, and a nontoxic salt of N-methyl-omega-phenyl-tertiary-butyl amine wherein said non-toxic salt increases the analgesic effect of the analgesic while producing no substantial symptoms of central cerebral stimulation and in which the proportions of the non-toxic salt of N-methyl-omega-phenyl-tertiary-butyl amine and the analgesic are from about 2.5-30 mg. of the non-toxic salt with from about 50-500 mg. of the analgesic.

3. An analgesic composition comprising the analgesic, acetylsalicylic acid, and a non-toxic salt of N-methyl-omega-phenyl-tertiary-butyl

amine wherein said analgesic and the non-toxic salt are present in the proportions of about 325 mg. of the analgesic to 5-15 mg. of the non-toxic salt.

4. An analgesic composition comprising acetylsalicylic acid and N-methyl-omega-phenyl-tertiary-butyl amine sulfate.

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