

# UNITED STATES PATENT OFFICE.

CHARLES L. BORGMeyer, OF RAHWAY, NEW JERSEY.

## PYROXYLINE SOLVENT AND ITS COMPOUNDS.

SPECIFICATION forming part of Letters Patent No. 503,401, dated August 15, 1893.

Application filed May 25, 1893. Serial No. 475,463. (No specimens.)

*To all whom it may concern:*

Be it known that I, CHARLES L. BORGMeyer, a citizen of the United States, residing in the city of Rahway, county of Union, and State of New Jersey, have invented certain new and useful Improvements in Pyroxyline Solvents and their Compounds; and I do hereby declare that the following is a clear, full, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

The object of my invention is to extend the list of active solvents of soluble pyroxyline. I have found that the following are active solvents of soluble pyroxyline when used in combination with grain alcohol, but are not active solvents individually: oil of hemlock, oil of worm-wood, oil of caraway chaff, oil of savin, oil of cajeput, oil of spruce; all of which oils are related by the common property that none is an active solvent in combination with fusel oil.

I am aware that oil of caraway seed has been previously patented as a "latent liquid solvent." Oil of caraway seed differs from oil of caraway chaff in being more viscous,

less volatile, and less strongly solvent of pyroxyline when in alcoholic solution; also in being less soluble in alcohol than is oil of caraway chaff, to which advantages in favor of oil of caraway chaff may be added that the latter is one third the price of oil of caraway seed.

I have found that pyroxyline is soluble in combinations of (common) alcoholic solutions of the preceding oils each with the other and all together.

Having described my invention, and in view of the described equivalence of the oils as set forth, what I claim, and desire to secure by Letters Patent, is—

1. An improved active solvent of pyroxyline which consists of an ethyl-alcoholic solution of the oil of caraway-chaff.

2. A pyroxyline solution or compound which consists of pyroxyline dissolved in an ethyl-alcoholic solution of the oil of caraway-chaff.

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Witnesses:

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