

UNITED STATES PATENT OFFICE.

FERDINAND A. SCHWILL, OF CINCINNATI, OHIO.

FREEZING-MIXTURE.

SPECIFICATION forming part of Letters Patent No. 343,860, dated June 15, 1886.

Application filed March 22, 1886. Serial No. 196,172. (No specimens.)

To all whom it may concern:

Be it known that I, FERDINAND A. SCHWILL, a citizen of the United States, residing at Cincinnati, in the county of Hamilton, State of Ohio, have invented certain new and useful Improvements in Freezing Mixtures, of which the following is a specification.

The object of my invention is to provide a freezing or refrigerating mixture that can be used for producing and maintaining a low temperature for any length of time and for any purpose whatever. This mixture is composed of the following ingredients, and in about the proportions stated, to wit: fifteen pounds of nitrate of ammonia and forty pounds of chloride of magnesium. Said ingredients are mixed with a brine composed of ice and common salt in any suitable proportions. I

prefer, however, to use about three tons of ice and four hundred and fifty pounds of salt, as this furnishes a refrigerant that can be employed for most every purpose; but in some cases the proportions may be varied to suit circumstances.

I claim as my invention—

A freezing-mixture composed of ice, salt, nitrate of ammonia, and chloride of magnesium in suitable proportions, for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

FERDINAND A. SCHWILL.

Witnesses:

JAMES H. LAYMAN,
SAML. S. CARPENTER.