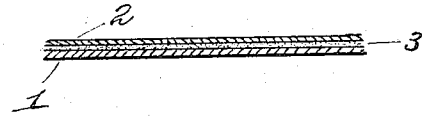
B. ABRAHAMSEN.

SHEET IRON PLATE.

APPLICATION FILED MAY 3, 1918.

1,312,937.

Patented Aug. 12, 1919.



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UNITED STATES PATENT OFFICI

BRYNJULV ABRAHAMSEN, OF TRONDHJEM, NORWAY.

SHEET-IRON PLATE.

1,312,937. Specification of Letters Patent. Patented Aug. 12,

Application filed May 3, 1918. Serial No. 232,416.

To all whom it may concern:

Be it known that I, BRYNJULV ABRAHAMSEN, subject of the King of Norway, and resident of Trondhjem, Norway, have invented an Improvement in Sheet-Iron Plates, of which the following description is a specification.

In the manufacture of common tin-plate such as used for making sardine cans and other containers for preserved foods the general process is as follows:—The sheet-iron plates are, after having been treated with certain solutions, dipped into molten tin or alloys of said metal. The plates are thus coated with a more or less thick coating of tin. The thickness of the tin-coating varies very much on one and the same plate.

Lately tin-plates have been manufactured the coating of which consists of aluminium. Such plates are probably manufactured in the following manner: The sheet-iron plates are dipped into molten aluminium and kept there until the aluminium amalgamates with the iron and forms an alloy which makes the pure aluminium adhere to the plate. Also in this case the protective metal coating is of varying thickness.

The so-called black sheet-iron, which is lately marketed has no protective metal coating but a coating of lac or varnish. The lac or varnish is coated on the black sheet-iron plate. The said kind of sheet-iron therefore has to be designated as lacquered or varnished sheet-iron plates. There also exist plates where the lac or the varnish are admixed aluminium-powder.

The present invention has for its object the provision of sheet metal such as used for making cans and other food containers having a protective metal-coating consisting of tin, aluminium or other metals or alloys suitable for the purpose, said coating being applied on the sheet-iron plate as a film or foil of uniform thickness and stuck to the plate by means of a cement which will not decompose, slag or become liquid by heating to a degree such quired for sterilizing the contents containers consisting of for instance cellulose or celloidin-lac. The metal foil is at first rolled to the desired ness whereupon said film or foil by of rolls is brought to adhere to the la or varnished sheet-iron plate.

The accompanying drawing is sectional view, on an enlarged scal sheet iron plate, provided with a pr metal foil and an adhesive medium said plate and foil in accordance w invention.

The sheet iron plate is indicated a protecting metal foil at 2, and the a medium is indicated at 3.

The process of manufacturing proved plate may be varied, thus stance the lac or varnish may be to the metal-film or to said film as also to the sheet-iron plate before menting takes place.

Besides foils of tin and alumin protecting sheet iron plates, othe foils, such as foils of nickel, zinc, brass, lead bronze, platina, gold, silv like can be used.

What I claim as my invention is

1. A sheet iron plate having a pr metal foil thereon, and an adhesive uniting said plate and said foil, hesive medium being capable of wi ing sterilizing heat.

2. A sheet iron plate having a pr metal foil thereon, and an adhesive uniting said plate and said foil, hesive medium comprising a cemer is capable of withstanding sterilizi

In testimony whereof, I have sig name to this specification.

BRYNJULV ABRAHAM

Witnesses:
MILO A. JEWETT,
GEORGE P. SÖRENSEN.