

PATENT SPECIFICATION



148,870

Convention Date (Germany): Mar. 6, 1916.

Application Date (in United Kingdom): July 10, 1920. No. 20,686/20.

Complete Accepted: Dec. 9, 1920.

COMPLETE SPECIFICATION.

Improvements in and in connection with Baking Pans.

We, The NÜRNBERGER METALL- & LACKIERWARENFABRIK VORM. GEBRÜDER BING, AKTIENGESELLSCHAFT, a company incorporated under the German Law, domiciled at No. 16, Blumenstrasse, Nürnberg, Germany, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has for its object the baking upon open flames (*e.g.* upon a flame from the kitchen-range, gas-flame, spirit flame or the like). This object is attained through separating from the source of heat the centre tube of the baking pan, known by itself, and the bottom of the baking pan through heat non-conducting material, and through closing the baking pan by a lid. This is effected according to the invention in suspending the baking pan upon a double walled chimney mounted over the source of heat in providing an air-filled space between the two walls of the chimney and another air-filled space between the outer wall of the chimney and the heating tube of the baking pan.

The baking pan *a* is constructed as usual, having a heating tube at its centre; it differs from the baking pans of known construction only so far that the central heating tube *d* has at its upper end a flange *e* designed to be placed upon the disc *i*.

The baking pan is mounted upon the device *i, k, f* which together with the said flange *e* of the heating tube *d*, acts as protector against heat, the said protecting device being placed over an open flame. Owing to the air spaces between the inner chimney *h* and the outer chimney *k* and between the outer chimney *k* and the wall of the heating tube *d* on the one hand and between the protecting disc *f* and the bottom of the baking pan on the other hand the transmission of the heat from the open flame to the bottom and to the inner wall of the baking pan is reduced so that the material to be baked cannot be burned although the heat from below is provided which is required for the baking.

The outer chimney *k* increases this effect and prevents further a loss of heat in the chimney *h*, as the heat radiating from the flame in lateral directions is thrown back by the cylinder *h* so that it

ERRATUM.

SPECIFICATION No. 148,870.

Page 2, line 19, delete “& Co.”

PATENT OFFICE,

March 9th, 1921.

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This invention has for its object the baking upon open flames (*e.g.* upon a flame from the kitchen-range, gas-flame, spirit flame or the like). This object is attained through separating from the source of heat the centre tube of the baking pan, known by itself, and the bottom of the baking pan through heat non-conducting material, and through closing the baking pan by a lid. This is effected according to the invention in suspending the baking pan upon a double walled chimney mounted over the source of heat in providing an air-filled space between the two walls of the chimney and another air-filled space between the outer wall of the chimney and the heating tube of the baking pan.

The invention is shown by way of example in the accompanying drawing in Fig. 1 in an axial section and in Fig. 2 in plan view.

The annular disc *f* of heat non-conducting material is mounted upon a foot *g*. At the centre of the disc *f* a chimney *h* is arranged which carries near its upper end a second annular disc *i* of heat non-conducting material. A cylinder *k* is inserted between the two discs *f* and *i*, serving as a protector against heat. This cylinder *k* is of larger diameter than the inner cylinder *h* so that between the two chimneys an air-filled annular space is formed.

[Price 1/-]

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The baking pan is mounted upon the device *i, k, f* which together with the said flange *e* of the heating tube *d*, acts as protector against heat, the said protecting device being placed over an open flame. Owing to the air spaces between the inner chimney *h* and the outer chimney *k* and between the outer chimney *k* and the wall of the heating tube *d* on the one hand and between the protecting disc *f* and the bottom of the baking pan on the other hand the transmission of the heat from the open flame to the bottom and to the inner wall of the baking pan is reduced so that the material to be baked cannot be burned although the heat from below is provided which is required for the baking.

The outer chimney *k* increases this effect and prevents further a loss of heat in the chimney *h*, as the heat radiating from the flame in lateral directions is thrown back by the cylinder *k* so that it is not lost but conducted under the cover *b* of the baking pan *a* by means of the inner chimney *h*.

The heat from above required for the baking is produced by the open flame and by the heat emanating from the same which being conducted under the vaulted central part *c* of the cover *b* spreads out from there in every direction over the material to be baked, this spreading out being assisted by the holes *m* near the circumference of the cover *b*.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to

be performed, we declare that what we claim is:—

1. A baking pan with central heating tube in which the heating tube and the bottom of the baking pan are separated from the source of heat by devices of heat non-conducting material, the baking pan being covered by a lid.
2. A baking pan with heating tube as claimed in Claim 1 in which the baking pan is mounted by means of a flange of

the heating tube upon a double-walled chimney placed over the source of heat, air spaces being reserved between the two walls of the chimney and between the outer chimney and the heating tube of the baking pan. 15

Dated this 10th day of July, 1920.

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