

No. 735,782.

PATENTED AUG. 11, 1903.

L. LAKEBERG.
PACKING MATERIAL FOR HOT RIVET JOINTS.
APPLICATION FILED JULY 5, 1902.

NO MODEL.

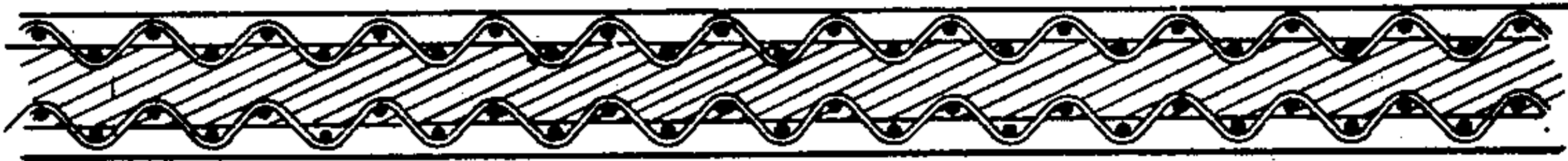


Fig. 1.

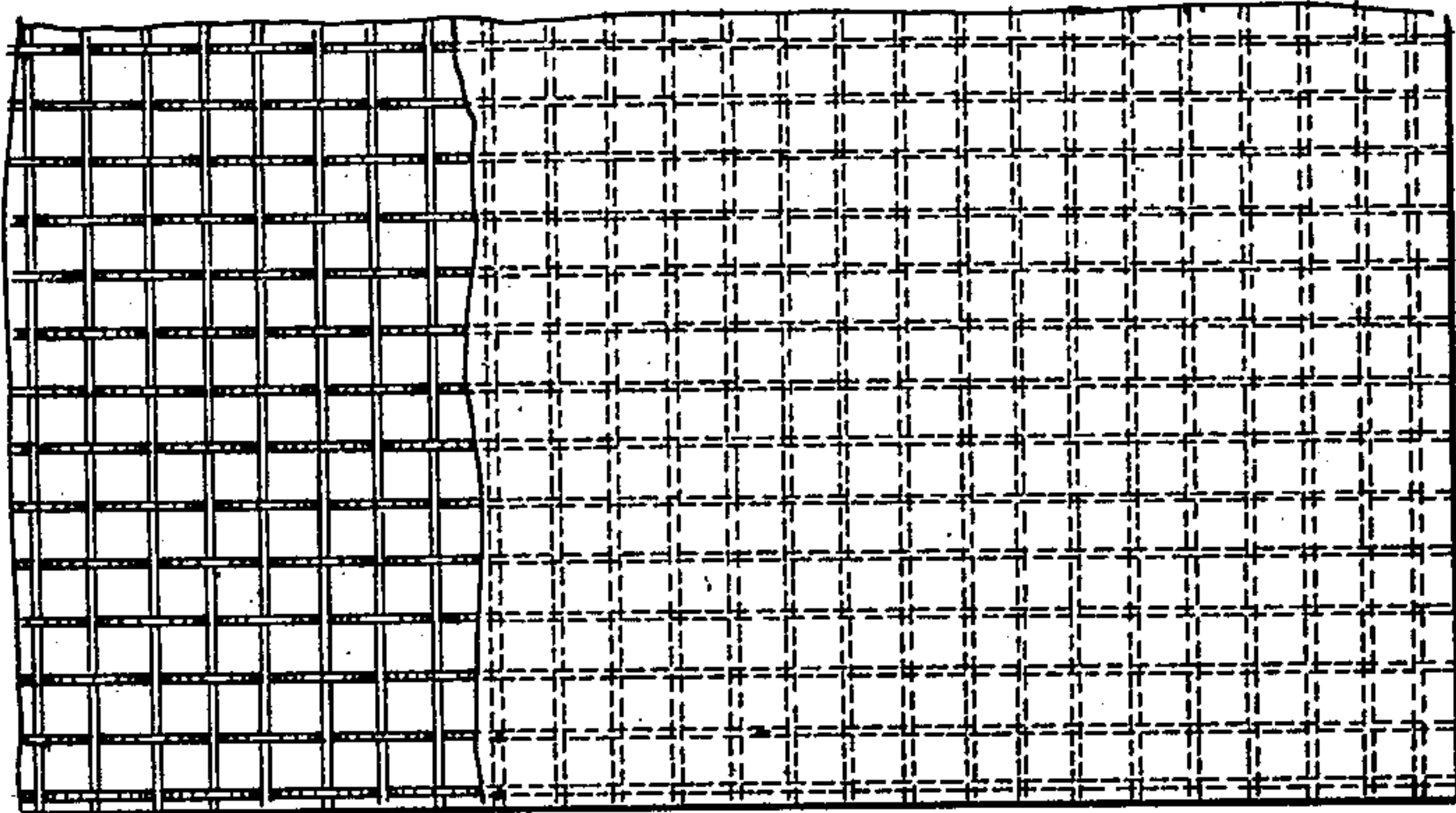


Fig. 2.

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UNITED STATES PATENT OFFICE.

LEOPOLD LAKEBERG, OF LEHE, GERMANY.

PACKING MATERIAL FOR HOT-RIVET JOINTS.

SPECIFICATION forming part of Letters Patent No. 735,782, dated August 11, 1903.

Application filed July 5, 1902. Serial No. 114,527. (No model.)

To all whom it may concern:

Be it known that I, LEOPOLD LAKEBERG, coppersmith, a subject of the German Emperor, and a resident of 39 Buchtstrasse, Lehe, Germany, have invented new and useful Improvements in Packing Material for Hot-Rivet Joints to be Used in Connection with Joints Obtained by Hot-Riveting, of which the following is a specification.

10 In the accompanying drawings the packing material is shown in Figure 1 in a perspective view. Fig. 2 is a cross-section showing the riveted joints with the packing material applied.

15 This invention relates to a packing material which is advantageously used in jointing metal parts by means of hot-riveting.

The packing material consists of a sheet of pasteboard to both surfaces of which wire-nettings are fixed in any suitable manner. The wire-nettings are either pressed into the ready pasteboard or they can be connected with the pasteboard while being manufactured. The wire-nettings on both sides of the

20 pasteboard are filled with lac or varnish which is of such a kind that it becomes liquid when very strongly heated—for example, to several hundred degrees—and hardens quickly and strongly at the usual temperature.

30 The packing is used in the following manner: Before the joint is riveted the packing material is placed between the metal parts which are to be jointed. The rivet-holes are eventually to be made in the packing material before it is placed in position. When the red-hot clench-bolt is inserted, the lac or varnish which fills the wire-netting becomes liquid immediately around the riveting-hole

and up to a certain distance around the same, and under the pressure with which the metal parts are pressed together by the rivet the liquid lac flows into the small spaces which are nearly always left free around the rivet, as the riveting-holes of the two parts are very rarely placed exactly over each other, the clench-bolt consequently deviating from its vertical position. The lac hardens simultaneously with the clench-bolt and the surrounding metal, thus forming a hard mass tightly filling out any holes or free spaces in the rivet, preventing the passing of cold water, even if the same is under a certain pressure.

This improved packing material is not intended to be used with objects which become hot in their use—as boilers, for example. The purpose of the packing is principally to calk against cold pressure. It will therefore be used most in shipbuilding.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

Packing material for hot-rivet joints consisting of pasteboard, wire-nettings fixed on both surfaces of said pasteboard and a coating of lac or varnish melting at a high temperature on the wire-nettings to fill the space around the clench-bolt, substantially as described and shown and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

LEOPOLD LAKEBERG.

Witnesses:

FR. V. LEZZENN,
E. HÜLSEBERG.