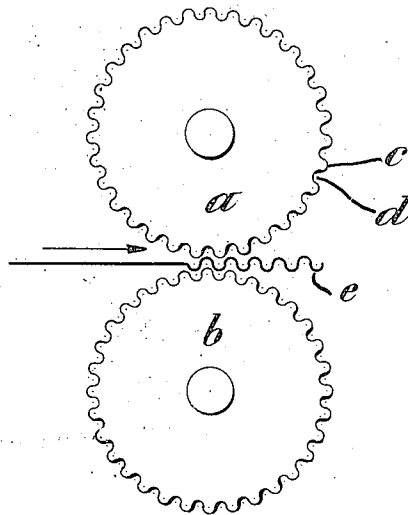


H. G. REINSTEIN.
PROCESS FOR CORRUGATING CARDBOARD.
APPLICATION FILED JAN. 27, 1911.

1,016,093.

Patented Jan. 30, 1912.



Witnesses:

W. Williams
John J. Jones

Inventor:

Hans Günther Reinstein
By *John Muir* Attorney.

UNITED STATES PATENT OFFICE.

HANS GÜNTHER REINSTEIN, OF HANOVER, GERMANY.

PROCESS FOR CORRUGATING CARDBOARD.

1,016,093.

Specification of Letters Patent.

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Application filed January 27, 1911. Serial No. 605,126.

To all whom it may concern:

Be it known that I, HANS GÜNTHER REINSTEIN, a subject of the German Emperor, and resident of Hanover, Germany, have
5 invented a certain new and useful Process for Corrugating Cardboard, of which the following is a specification.

10 This invention relates to a process for preparing and corrugating card board whereby the latter is rendered adapted to be employed for the manufacture of pieces of furniture or the like.

15 This process consists in dipping the card board in oil preferably linseed or a cheap fish oil which owing to its fluidity penetrates into the finest pores of the card board. When the latter is entirely saturated with oil it is pressed and heated by means of hot
20 corrugated rollers so that the oil contained in the card board becomes thick and hardens so as to form varnish.

Owing to the fact that the oil impregnating the card board hardens and forms varnish, the corrugations formed in the card
25 board become permanent.

30 The card board treated according to the present process not only becomes adapted to resist moisture but also adapted to be employed as a resisting building material especially suitable for manufacturing pieces of furniture.

To illustrate the process, I have illustrated diagrammatically in the accompanying drawing a cross section of a rolling mill.

In the drawing *a* and *b* designate the rollers of a rolling mill the surfaces of which
35 are provided with longitudinal ribs *c* which alternate with depressions *d*. The ribs and depressions of the two rollers *a* and *b* are similar so that the ribs of one roller are adapted to engage the depressions of the
40 other roller and inversely. The rollers are heated, so that the card board *e* passed between them retains the profile produced by the corrugations.

45 Having now fully described my said invention, what I claim and desire to secure by Letters Patent, is:

A process for preparing card board consisting in impregnating the card board with
50 oil and corrugating it by means of hot rollers, so that the oil hardens during its passage between the rollers and consolidates the corrugations of the card board, substantially as and for the purpose set forth.

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

HANS GÜNTHER REINSTEIN.

Witnesses:

MARTA L. THOMPSON,
HERMINE IWSSEN.