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J. C. HEYER

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MAKING ROLLED METAL SHEETS METHOD OF

Filed March 31, 1922

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Inventor: John C. Heyer By Cook, M Gauly Attys.

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JOHN C. HEYER, OF GRANITE CITY, ILLINOIS, ASSIGNOR TO HOYT METAL COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF MISSOURI.

METHOD OF MAKING ROLLED METAL SHEETS.

Application filed March 31, 1922. Serial No. 548,550.

have been previously rolled in the usual To all whom it may concern: Be it known that I, JOHN C. HEYER, a manner until said sheets have been reduced citizen of the United States of America, to the desired thickness. The rolled metal a resident of Granite City, in the county of sheets are placed together, as shown in Fig. 5 Madison, State of Illinois, have invented I of the drawing, with the impression sheet 60 certain new and useful Improvements in D interposed between them. The metal Methods of Making Rolled Metal Sheets, sheets and the interposed impression sheet of which the following is a full, clear, and are then passed between the pressure rolls exact description, reference being had to A and are subjected to just enough pressure 10 the accompanying drawings, forming a part to cause said impression sheet to be pressed 65 firmly onto the adjacent faces of said metal of this specification. This invention relates to rolled metal sheets, thus slightly displacing the metal of said faces, whereby the rough faces of said sheets and the method of making the same, impression sheet will be reproduced on the and particularly to rolled metal sheets hav-15 ing a dull, rough surface known as satin adjacent faces of the metal sheets. Due to 70 finish. The main object of this invention the fact that the pressure to which the sheets are subjected is only enough to press the is to provide a simple and expedient method faces of the impression sheet firmly against whereby a sheet of metal may be provided the adjacent faces of the metal sheets, there with a dull finish. Briefly stated, this may is no perceptible elongation of said metal 75 sheet having a rough surface corresponding sheets, and for this reason there is no danger to the surface it is desired to place on the that the paper impression sheet will be mumetal sheet, which impression sheet is tilated by elongation to such an extent that pressed onto said metal sheet, thereby re- the lines of mutilation will be indicated on

20 be accomplished by the use of an impression 25 producing on the metal sheet the rough sur- the metal sheets. face of the impression sheet. Fig. I is a diagrammatical view showing been made to reproduce the dull face placed the means of pressing the metal sheets and the impression sheet together.

- 30 Fig. II is a greatly enlarged fragmentary side elevation showing portions of the metal sheets and a portion of the impression sheet as they will appear when being passed between the pressure rolls.
- Fig. III shows a fragment of a metal 35 sheet after the dull finish has been placed thereon.

A designates a pair of rotatable pressure rolls mounted on supporting shafts B, said 40 pressure rolls being driven in any suitable manner.

C indicates metal sheets which have been previously rolled to the desired thickness, the surface of said metal sheets being smooth tween the pressure rolls at one time, and 45 and bright as a result of said rolling operation. Interposed between pairs of said metal sheets is an impression sheet D, which may be a sheet of material of any sort having a rough or fibrous surface, but preferably a sheet of paper of ordinary texture. In carrying out the method, assume for the sake of simplicity that only two sheets of metal are being provided with dull faces. The metal sheets, as has already been stated,

In Fig. III of the drawing an attempt has on a metal sheet by the method herein disclosed, but it is a rather difficult matter to reproduce said finish with any degree of 85 accuracy with pen and ink; however, it is believed that a sufficient idea of the appearance of the finish will be obtained when it is said that the surface of the paper impression sheet is accurately reproduced on 👀 the metal sheet resulting in a face having innumerable infinitesimal grooves and ridges in the form of irregular fibers whereby a dull satinlike finish is obtained.

While the drawing shows a pair of metal 95 sheets being acted upon to produce a dull finish thereon, it is apparent that more than one pair of metal sheets may be passed bealso that the impression sheet may be so lo- 100 cated with relation to said metal sheets that a dull finish will be placed on both faces of said metal sheets.

I claim:

1. The method herein described which 105 comprises interposing an impression sheet between a plurality of metal sheets and subjecting said metal sheets to pressure to provide a dull finish on the faces of said metal sheets adjacent to said impression sheet, said 110

metal sheets only being in contact with the a dull finish on the faces of said metal sheets pressure-applying agency.

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⁵ tween a plurality of metal sheets and then I hereunto affix my signature. passing said metal sheets between rollers to apply pressure thereto and thus provide

adjacent to said sheet of paper, said metal 2. The method herein described which sheets only being in contact with said rollers. 10 comprises interposing a sheet of paper be- In testimony that I claim the foregoing

JOHN C. HEYER.

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