Nov. 18, 1924.

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W. J. BOYD

TRANSFER METALLIZED MEDIUM

Filed May 13, 1924

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William Boyd, Doyd, Denny Lucke, His ATTORNEY.

## Patented Nov. 18, 1924.

## UNITED STATES PATENT OFFICE.

WILLIAM J. BOYD, OF YONKERS, NEW YORK, ASSIGNOR TO PEERLESS ROLL LEAF CO., INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

TRANSFER METALLIZED MEDIUM.

Application filed May 13, 1924. Serial No. 712,988.

stituting in the finished product an outer 55 To all whom it may concern: Be it known that I, WILLIAM J. BOYD, a resinous coating.

citizen of the United States of America, re- Referring to Fig. 1, the strip of paper is siding at Yonkers, county of Westchester, indicated at 1. The layer of releasable com-5 State of New York, have invented certain position is indicated at 2, and usually comis a specification.

10 lic transfer media.

The object of this invention is to provide operation. a transfer medium for metallizing purposes, The layer 3 represents gold leaf, silver either in the form of a sheet or roll, where- leaf, or preferably for the purposes of the by improved metallizing effect, including present invention, metallic alloy powder to 15 "depth" is attained for various textiles, sufficient fineness and selected in color as a media is transferred by hot stamping, or by metals. For such purpose, bronze or other tipping or like procedure.

20 or mass of comminuted metallic powder, as in the form of a layer, is applied to a face

new and useful Improvements in Transfer prises bees wax and rosin or other resins, 60 Metallized Mediums, of which the following having a fusing point or point of plasticity to effect release from the paper strip at the This invention relates to improved metal- temperature of the heated die in the hot stamping, tipping or other heated transfer

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leather or like article to which the metallic substitute for gold, silver or like precious 70 alloys of brass may be employed as a sub-Pursuant to my invention, the foil of metal stitute for gold and alloys of aluminum as a substitute for silver, platinum or the like. The above features are disclosed generally 75 of a sheet or strip of paper or like carrier in United States Patent No. 1,444,345, enby means of a releasable composition, and on titled Transfer metallic deposits, Paul R. the outer face of the metallic layer is ap- Heygel, inventor, granted on February 6th, mixed with rice starch. Such outer layer of to which company the present application 80 the transfer medium, it will be observed, is has been assigned in entire rights, title and As an example of a heated transfer imoperation, and the improved result attained ing metallic transfer media, embodying the 85 by my invention prevents the tarnishing or present invention, I cite the die of the chardarkening of the metal and also effects a acter described in United States Patent No. "depth" of the metallic layer by conjoint ac- 1,333,168, Nelson E. Funk, inventor, and assignor to Peerless Roll Leaf Co., Inc., grant-The outermost layer 4 of the marketed detail description and the accompanying roll leaf is a coating of shellac or other suitable sizing in which is distributed rice starch in finely divided condition. Prefer-In Fig. 2, I have illustrated the appli-

25 plied a layer embodying suitable sizing ad- 1923, to Peerless Roll Leaf Co., Inc., assignee, disposed between the metallic layer and the interests. textile or like article in the procedure of the 30 hot stamping, or tipping or other transfer pression machine for the purpose of employ-35 tion of the glue and rice starch.

Further features of the invention will be ed March 9th, 1920. more fully understood from the following drawings, in which-

Fig. 1 is a diagrammatic view in broken away perspective showing a portion of a ably, the rice starch is distributed uniformly 95 40strip of paper having on one face thereof a in the sizing or shellac coating. resinous releasable composition, on the outward face of which is disposed metallic pow- cation of the marketed roll leaf to an article 45 der and an outermost coating of sizing em- such as the front cover 5 of a bookcase, bodying rice starch distributed therein; and bearing any desired impression of wording 100 Fig. 2 is a diagrammatic view of an article or configuration as an ornamentation. By ornamented with the transfer paper roll in- the heated transfer operation, the theretodicated Fig. 1, whereby in the transfer hot fore shellac or sizing coating 4 is now posi-50 stamping operation, the sizing coating em- tioned between the article 5 and the layer bodying rice starch is disposed between the 3 of metal foil or metallic alloy powder; 105 layer of metallic powder and the article the theretofore layer 2 of releasable comornamented, the theretofore resinous releas- position has, by the transfer operation, beable composition becoming fused and con- come now the outermost coating in the fin-

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ished article, the resin of the layer 2 having become fused with the bees wax constituent sizing coating of the finished article.

5 The function of the rice starch distributed 2. A metallic transfer medium comprisin the now intermediate sizing layer 4, is ing a carrier strip, a layer of heat releasto increase markedly the "depth" of the able composition on one face of said strip, tone or color of the metallic powder and thus enables the use of metallic powder as 10 a true substitute for genuine leaf of gold, and an outermost sizing layer comprising silver or other precious metals.

The rice starch interposed between the article ornamented and the metallic powder ing a carrier strip, a layer of heat releas-15 any light effect of light waves passing a layer of metallic powder on the outward through the metallic layer and otherwise re- face of said layer of releasable composition flected by the surface of the article orna- and an outermost sizing layer comprising mented.

of metallic powder on the outward face of said layer of releasable composition and an and upon cooling serves as a shellac or like outermost sizing layer comprising sizing and rice starch.

> a layer of metallic powder on the outward face of said layer of releasable composition 40 rice starch distributed in the sizing. 3. A metallic transfer medium compris-

The "whiteness" of the rice starch par- in the sizing. 20 ticles serves also to act as a luminous screen 4. A metallic transfer medium compristo increase the brilliancy of the metallic ing a carrier strip, a layer of heat releasable powder.

25 be understood that many changes and modi-outermost sizing layer embodying rice from the spirit of the invention.

I claim:

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<sup>30</sup> ing a carrier strip, a layer of heat releasable composition on one face of said strip, a layer

serves also as an opaque screen to preclude able composition on one face of said strip, 45 rice starch distributed in minute particles 50

composition on one face of said strip, a layer Whereas I have described my invention of metallic powder on the outward face of by reference to specific forms thereof, it will said layer of releasable composition and an 55 fications may be made without departing starch distributed substantially uniformly in the sizing.

In testimony whereof I have signed this 1. A metallic transfer medium compris- specification this 10th day of May, 1924.

WILLIAM J. BOYD.

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