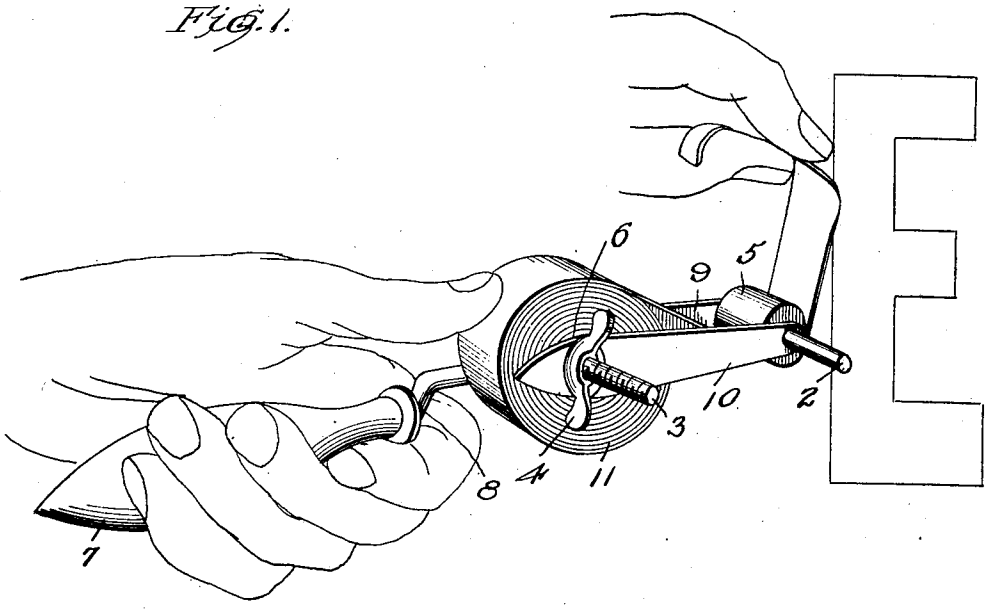
H. M. BIR.

TOOL FOR APPLYING METAL RIBBON LEAF.

APPLICATION FILED MAR. 2, 1920.

1,348,079. **Patented July 27, 1920.**

Fig. 1.



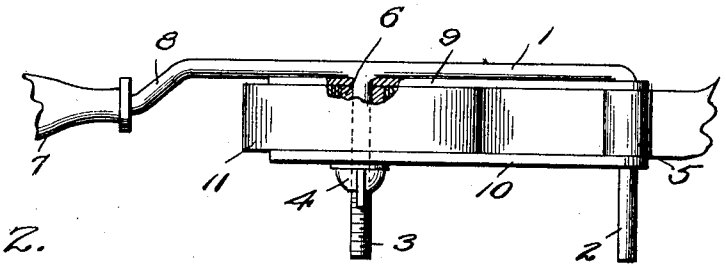


Fig. 2.

Witnesses

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HERMAN M. BIR, OF HUNTINGTON, INDIANA.

TOOL FOR APPLYING METAL RIBBON-LEAF.

1,348,079. Specification of Letters Patent. Patented July 27, 1920.

Application filed March 2, 1920. Serial No. 362,665.

To all whom it may concern:

Be it known that I, HERMAN M. BIR, a citizen of the United States, residing at Huntington, in the county of Huntington and State of Indiana, have invented certain new and useful Improvements in Tools for Applying Metal Ribbon-Leaf, of which the following is a specification.

In the art of gilding the metal leaf is usually provided in book form, the leaves being separated by tissue sheets. Considerable waste of material usually results when using metal leaf in book form and the work is necessarily slow and tedious.

The present invention aims to save material and enable the work to be performed with comparative ease and despatch.

The drawings illustrate a preferred embodiment of the invention. However, it is to be understood that in adapting the same to meet different conditions, various changes in the form, proportion and minor details of construction may be resorted to without departing from the nature of the invention as claimed hereinafter.

Referring to the drawings hereto attached:

Figure 1 is a perspective view showing a tool embodying the invention as it appears when in use for lettering.

Fig. 2 is a top plan view of the tool, parts being broken away.

Corresponding and like parts are referred to in the following description and indicated in the several views of the drawings by like reference characters.

The tool comprises a frame which includes a member 1 and laterally extending elements 2 and 3, the latter being threaded to receive a nut 4, which is preferably of the type to be operated by hand. The elements 2 and 3 are disposed in parallel relation and constitute spindles upon which are mounted spools or rollers. The element 5 constitutes a guide roller and is mounted upon the spindle 2. The element 6 is a spool upon which the leaf in ribbon form is wound, the leaf being separated by a ribbon of tissue. The spools 5 and 6 may be of any relative diameter but are preferably of uniform length so as to maintain the ribbon in proper position. The member 1 of the frame consists of a rod or bar which is provided at one end with a handle 7 to be grasped by the hand as indicated in Fig. 1. The member 1 is offset near its juncture with the handle 7 as indicated at 8 to provide a rest to be engaged by a finger of the hand to enable the tool to be firmly gripped. The thumb of the hand grasping the tool is utilized as a brake to prevent the ribbon from unwinding too freely from the spool and to hold the ribbon when the metal leaf is being applied to the work. The spindles 2 and 3 preferably form a part of the member 1 and are adapted to receive spools of varying lengths according to the width of the ribbon. Plates 9 and 10 are mounted upon the spindles 2 and 3 and embrace opposite ends of the spools 5 and 6 and serve to hold the roll of the ribbon in proper position. The plates 9 and 10 have apertures in coincident relation and of a size to snugly receive the spindles 2 and 3. The spools and the ribbon roll are confined between the plates 9 and 10 and are held in proper position on the spindles by means of the nut 4 which is turned up against the outer plate 10 to such a degree as to prevent binding of the spools or roll of ribbon.

The metal leaf of any nature and width is wound upon a spool as 6 to form a roll 11, it being understood that the metal ribbon is separated by a ribbon of tissue in substantially the same manner as the metal leaves are separated by sheets of tissue when in book form. When the tool is properly charged for the work the guide roller 5 is of a length corresponding to the width of the roll of ribbon so as to be properly retained between the plates 9 and 10. The width of the ribbon roll will depend largely upon the nature of the work, it being understood that a roll of ribbon will be provided so that there will be no appreciable waste of material. The end of the ribbon is drawn from the roll 11 and is passed around the guide roller 5 as indicated most clearly in Fig. 1. The leaf is exposed on the outer side of the ribbon of tissue thereby enabling it to be conveniently and rapidly applied to the work. The ribbon is drawn from the roller 11 as the leaf is used and the unwinding of the ribbon may be controlled by the thumb of the hand grasping the tool as indicated in Fig. 1. The leaf is applied to the work by grasping the tissue ribbon between the digits of the hand and applying the leaf to the work, substantially as indicated in Fig. 1. It will thus be understood that by proper selection of a roll of leaf metal of proper width there need be no appreciable

waste of material and the construction is such as to admit of the leaf being applied to the work with ease and despatch.

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent, is:

1. A tool of the character specified comprising a frame embodying laterally extending spindles, plates mounted upon the spindles and adapted to receive between them a guide roller, and a roll of ribbon leaf, and means for retaining the parts on the spindle in the required adjusted position.

2. A tool of the character specified comprising a frame embodying a longitudinal member having spindles provided laterally therefrom, and forming a part thereof, a handle at one end of the frame, the latter being offset adjacent the handle, plates loosely mounted upon the spindles, one of the spindles being threaded and a nut mounted upon the threaded spindle to retain the parts in position thereon.

In testimony whereof I affix my signature in presence of two witnesses.

HERMAN M. BIR.

Witnesses:
WILLIAM F. RICE.
MARVEL PLASTERER.