

No. 878,184.

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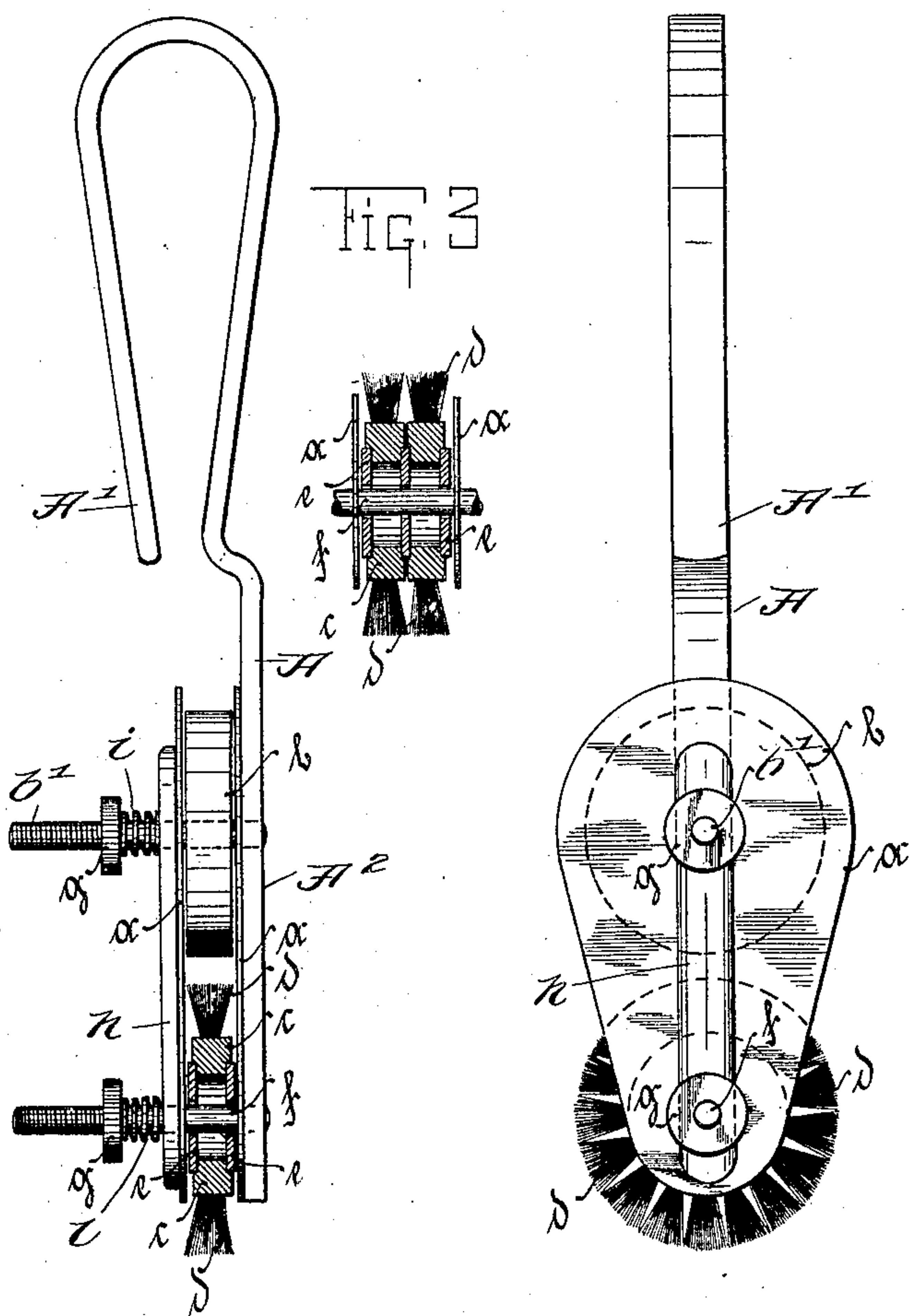
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APPARATUS FOR APPLYING RIBBON GOLD LEAF AND THE LIKE.

APPLICATION FILED DEC. 7, 1906.

FIG. 1

FIG. 2



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# UNITED STATES PATENT OFFICE.

GEORG BRÄUNLEIN, OF NUREMBERG, GERMANY.

## APPARATUS FOR APPLYING RIBBON GOLD-LEAF AND THE LIKE.

No. 878,184.

Specification of Letters Patent.

Patented Feb. 4, 1908.

Application filed December 7, 1906. Serial No. 346,762.

*To all whom it may concern:*

Be it known that I, GEORG BRÄUNLEIN, whose post-office address is No. 35 Wirthstrasse, at Nuremberg, Bavaria, in the Empire of Germany, have invented certain new and useful Improvements in Apparatus for Applying Ribbon Gold-Leaf and the Like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to mechanism for applying gold-leaf or like material to surfaces for the purpose of decoration, signs and so forth and relates to that class of mechanism wherein means are provided for supplying the gold leaf and wherein a brush is provided to engage the leaf when applied the devices of this character usually being embodied in a portable structure adapted to be manually operated by the user.

The object of this invention is to provide a device of this character with a form of brush adapted to engage the leaf or ribbon in a manner to effectively apply the same to the surface to be treated and the invention further consists in features of construction and has other objects which will be more fully set forth in connection with the accompanying drawing and will be more particularly pointed out and ascertained in and by the appended claims.

In the drawing Figure 1 is a plan view partly in section of a device embodying the main features of my invention. Fig. 2 is a side elevation thereof. Fig. 3 is a detail sectional view showing the manner in which additional brushes may be employed.

The invention will be described in connection with the specific embodiment shown but it will be understood that the invention is not to be limited by such specific showing except for such limitations as the claims import.

As shown the device comprises a support which is desirably in the form of a handle A formed of a bar of metal which is bent upon itself at A' to provide a handle portion and is provided with a bearing extension A<sup>2</sup> projecting forwardly from said portion. Means are associated with the handle for supplying the gold leaf or ribbon which as shown comprises a package reel b upon which the ribbon is wound, said package reel being mounted upon a reel spindle b' secured at one end

in said extension A<sup>2</sup>. A brush is provided for engaging the ribbon while it is being applied to the surface to be decorated and in the present embodiment said brush is of circular formation and is so disposed with respect to the ribbon supplied from the reel b as to peripherally engage the same. In other words one of the principal features of the invention is to mount the brush in such a manner that the ends of the bristles or tufts engage the ribbon or leaf thereby effectively applying the same to a smooth surface and also insuring a thorough application of the leaf in the cavities and interstices of a rough surface. As shown said brush consists of an annular base or holding portion c to which the tufts d are secured, said annular portion c being preferably loosely mounted on disks e. Conveniently the annular portions c are laterally recessed approximately half the thickness of the disks e so that the latter when assembled projects slightly on opposite sides of the annular portion c as clearly shown in Figs. 1 and 3. By means of this construction additional brushes may be easily inserted in view of the fact that no screws or other securing devices are required which devices are avoided by reason of the fact the disks are of less diameter than the annular portions and thereby serve to engage the same and support them in aligned relation to their axis of rotation. A brush spindle f is secured at one end to the extension A<sup>2</sup> and projects laterally therefrom and serves as a mounting for said brush. Yieldingly acting adjustable means are provided for maintaining the reel and brush in place and as shown said means consists in addition to the spindles of nuts g having threaded engagement therewith and a bearing strip h mounted on said spindles and between which and the nuts g are interposed spiral springs i. Desirably plates a are mounted upon the spindles b' and f, one of said plates being interposed between the extension A<sup>2</sup> and the brush and reel and the other of said plates being interposed between said brush and reel and the bearing strip h.

From the foregoing arrangement it will be noted that the springs serve to yieldingly hold the parts in close working relation and that the tension of said springs may be adjusted by the nuts in a manner to maintain such working relation and prevent binding of the operative parts. If it is desired to apply a plurality of strips of ribbon the nuts



g can be turned outwardly on the spindles to accommodate such additional reels and brushes.

I claim:—

5 1. In a device for applying metallic leaf or ribbon, the combination of a strip of metal bent upon itself to form a handle portion and having a forwardly extending bearing portion, a threaded reel spindle and  
10 a threaded brush spindle mounted in said bearing portion and projecting laterally therefrom, two plates mounted on said spindles and spaced apart from each other, a bearing strip mounted on said spindles and  
15 located abreast of the outermost plate, nuts for said spindles, springs interposed between said nuts and said strip, a package reel interposed between said plates and mounted on said reel spindle, and a brush interposed be-  
20 tween said plates and mounted on said brush spindle and adapted to engage the ribbon while the latter is being applied.

2. In a device for applying metal leaf or ribbon, the combination of a handle having  
25 a bearing portion, a threaded reel spindle and a threaded brush spindle mounted in said bearing portion and projecting laterally therefrom, two plates mounted on said spindles and spaced apart from each other, a  
30 bearing strip mounted on said spindles abreast of the outermost plate, nuts for said spindles, springs interposed between said nuts and said strip, a package reel interposed between said plates and mounted on said  
35 reel spindle, and a brush interposed between said plates and mounted on said brush spindle and adapted to engage the ribbon while the latter is being applied.

3. In a device for applying metallic leaf or  
40 ribbon, the combination of a handle, a reel spindle and a brush spindle mounted in said handle, plates mounted on said spindles, a package reel interposed between said plates and mounted on said reel spindle, a brush  
45 interposed between said plates and mounted on said brush spindle and adapted to engage

the ribbon while the latter is being applied, and yieldingly acting adjustable means for said spindles for holding the parts in place.

4. In a device for applying metallic leaf or 50 ribbon, the combination of a portable mechanism comprising a handle, means associated therewith for supplying the leaf or ribbon, and a circular brush associated with said handle and peripherally engaging the leaf or 55 ribbon when the same is being applied whereby pressure applied to the handle serves to impart a compressive strain on the bristles of the brush in the direction of their length. 60

5. In a device for applying metallic leaf or ribbon, the combination of a portable mechanism designed for manual operation and comprising means for supplying the leaf or ribbon, a brush having bristle portions, and 65 a support for said means and brush, said support serving to hold said brush in a manner to effect perpendicular and straight end-wise engagement of the bristle portions with the ribbon when the same is being applied, 70 the engagement being such that a compressive and variable strain may be thrust upon said bristles in the direction of their length.

6. In a device for applying metal leaf or ribbon, the combination of a support, and a 75 circular brush for said support comprising an annular brush holding portion for the bristles and interfitting disks supporting said annular portion,

7. In a device for applying metal leaf or 80 ribbon, the combination of a support, a reel and brush mounted on said means, said brush comprising annular brush holding portions and interfitting supporting disks projecting laterally from said annular portions. 85

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

GEORG BRÄUNLEIN.

Witnesses:

ALEX. VIELE,  
MAX SCHNEIDER.