

UNITED STATES PATENT OFFICE.

WALTER H. COE, OF PROVIDENCE, RHODE ISLAND.

DEVICE FOR APPLYING DECORATIVE FILMS.

SPECIFICATION forming part of Letters Patent No. 538,208, dated April 23, 1895.

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To all whom it may concern:

Be it known that I, WALTER H. COE, a citizen of the United States, residing at Providence, in the State of Rhode Island, have invented a new and useful Improvement in Devices for Applying Decorative Films, of which the following is a specification.

The object of my invention is to provide a conveniently operated device for applying the decorative film to the surface which is to be ornamented; and it consists in the improved construction and arrangement of the several parts, as hereinafter fully set forth.

In the accompanying drawings, Figure 1 represents a side elevation of the film applying device. Fig. 2 represents a top view of the same showing the core only of the package roll, the spirally wound decorative film and strip being omitted. Fig. 3 represents a longitudinal section taken in the line 3 3 of Fig. 2, the film and strip being indicated by spiral lines around the section of the core. Fig. 4 represents a transverse section taken in the line 4 4 of Fig. 1. Fig. 5 represents a detail upper face view of the spring actuated frame for the roller which serves to guide the paper strip from the delivering roller into the receiving chamber.

In the drawings, A represents the handle and B the outer frame of the device, which frame is provided with the shank *a*, for attachment to the said handle, the said outer frame being preferably made of sheet metal, cut out in one piece and bent up to form the lateral sides *c, c*, with a cross-piece *b*, at the under side, as shown in the drawings, Fig. 3, but the said outer frame may be otherwise constructed, in carrying out my invention. At the forward end of the frame B, and between the sides *c, c*, of the same, is journaled the delivering roller C, which is preferably made of rubber or other suitable yielding material *d*, and provided with a metallic or other or other suitable core or bushing *e*, adapted to turn loosely upon the fixed transverse bushing *f*, which is held in position between the sides *c, c*, of the outer frame B by means of the screw *f'* which passes through the sides *c, c*, and through the central perforation of the bushing. Between the sides *c, c*, is also placed the frame D, which at its forward end

is provided with the downwardly extending slots *g*, adapted to receive the axle journals *h*, of the holder E for the package roll F, which package roll consists of the core *i*, preferably of wood, provided with a central perforation *j*, and covered with a spirally wound paper strip H, having a decorative film H', which is shown in dotted line at one side of the strip, wound spirally therewith, so that the decorative film will be at the inner wound side of the paper strip, the said core with the spirally wound strip and film thereon, being removably held between the heads *k, k*, which are attached to the axle *l* of the holder E. The journals *h* of the axle *l*, are removably held in the slots *g*, and the heads *k, k*, are preferably made of greater diameter than that of the package roll so as to embrace the side of the roller C.

The frame D is pivoted at its rear end upon the fixed bushing *m*, which is firmly held between the sides *c, c*, of the outer frame B, by means of the screw *n*, passing through the said sides and through the center of the said bushing *m*, and upon the said bushing *m*, is placed the coiled spring *o*, one end of which is inserted into the hole *p* made in one side of the frame D, and the other end inserted into a hole *q* made in the side of the outer frame B, so that the resilience of the said spring, will serve to hold the periphery of the package roll F, in close contact with the periphery of the delivering roller C, and the rear frame D is provided with the downwardly extending lip *r*, which is adapted in conjunction with the sides *c, c*, and the cross-piece *b*, to form a closed chamber G, for the reception of the paper strip H, after the removal of the decorative film H', therefrom, and its deposit upon the surface I, which is to be decorated.

Upon the fixed bushing J, which is firmly held between the sides *c, c*, of the outer frame B, at the rear of the delivering roller C, by means of the screw *n'*, is pivoted the frame K, preferably formed of sheet metal in one piece, the sides *t, t*, being turned downward from the cross-piece *u*; and at the forward end of the frame K, is placed the guide roller L, preferably provided with the flanges *v, v*, which serve to embrace the sides of the delivering roller C, and thus prevent the lateral

disengagement of the paper strip therefrom, the said roller L being held in contact with the periphery of the delivering roller C, by means of the coiled spring M, placed upon the bushing J, with one end of the spring inserted into the hole *w*, in the side *c* of the frame B, and the other, inserted into the hole *w'*, in the side of the frame K. At the rear of the delivering roller C, and between the sides *c*, *c'*, of the outer frame B, is placed the curved guide plate N, which serves to guide the inwardly passing end of the paper strip away from between the delivering roller C, and the package roll F, to prevent the same from passing out and being wound around the delivering roller, instead of passing properly into the receiving chamber G.

In using my improved device for applying decorative films, the previously prepared, spirally wound package F, is placed upon the axle of the holder E, between the heads *k*, *k'*, and the journals *h* of the axle *l*, placed in the slots *g* of the spring actuated frame D, the said frame having been for this purpose turned upward upon its pivot, against the resilience of the spring *o*. The paper strip H is then unwound from the package roll F, and passed under the delivering roller C, and thence between the said delivering roller and the guide roller L, for entrance into the receiving chamber G. Now upon placing the delivering roller upon the surface I to be decorated, and pushing the said roller forward over the said surface, the paper strip, and the attached film H', will be unwound from the spirally wound package roll F, so that the interiorly wound film in the package, will in its passage to the under side of the delivering roller, lie upon the outside of the strip, and thus be deposited upon the surface I, while the paper strip H from which the film has been removed, will pass forward between

the guide roller L, and the delivering roller, and be deposited in the receiving chamber G, and after the paper strip has been fully unwound from the package roll F, and the accompanying film deposited, the used paper strip, may be removed from the chamber, by raising the forward end of the frame D, by means of which suitable access may be had to the chamber G.

When the decorative film is placed upon the paper strip so as to be wound spirally in the package roll at the outer side of the paper strip, the package roll may be employed as, and take the place of the delivering roller, the guide roller serving as before, to guide the paper strip into a holding receptacle.

I claim as my invention—

1. In a device for applying decorative films, the combination with the delivering roller, and the spring actuated guide roller, of a receptacle for the loosely delivered strip, substantially as described.

2. In a device for applying decorative films, the combination with the package roll, and the delivering roller adapted to receive the film and strip from the package roll, of the spring actuated guide roller, adapted to raise the strip from the deposited film, substantially as described.

3. In a device for applying decorative films, the combination with the package roll, and the delivering roller adapted to receive the film and strip from the package roll, of a receptacle for the loose paper strip, and the spring actuated guide roller adapted to raise the strip from the deposited film and guide the strip into the receptacle, substantially as described.

WALTER H. COE.

Witnesses:

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