

P. MERKEL.
 PROCESS OF PRODUCING PATTERNS ON HAIR COVERED SKINS.
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1,042,809.

Patented Oct. 29, 1912.

Fig. 1.

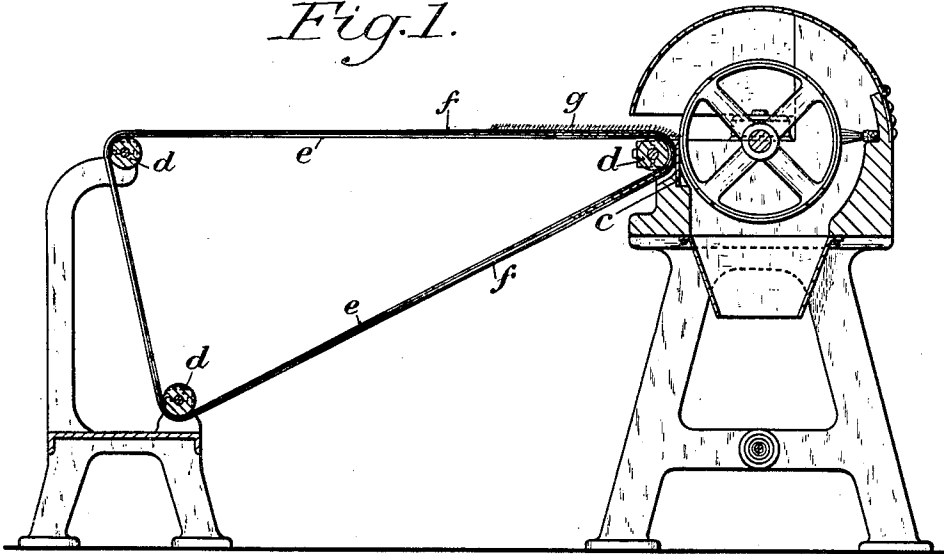
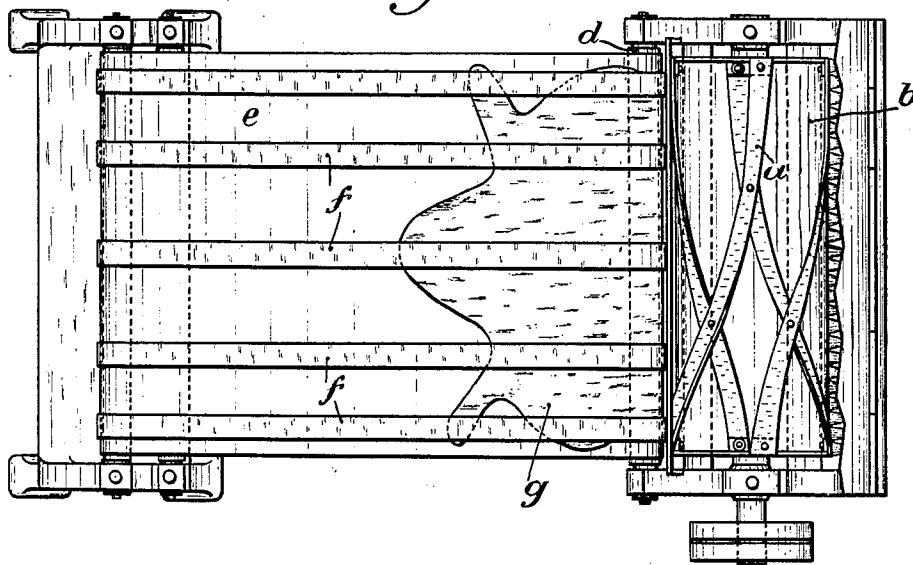


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

PAUL MERKEL, OF BÖHLEN, NEAR RÖTHA, GERMANY.

PROCESS OF PRODUCING PATTERNS ON HAIR-COVERED SKINS.

1,042,809.

Specification of Letters Patent.

Patented Oct. 29, 1912.

Application filed February 14, 1912. Serial No. 677,542.

To all whom it may concern:

Be it known that I, PAUL MERKEL, a subject of the German Emperor, residing at Böhlen, near Rötha, Saxony, in Germany, have invented a certain new and useful Improvement in Processes of Producing Patterns on Hair-Covered Skins, of which the following is a specification.

The object of this invention is to provide a simple process for producing patterns on hair covered skins.

The invention essentially consists in dyeing the tips of the hairs, then depressing the hairs, on selected portions of a skin, and then shearing off the tips of the undepressed hairs, so that after the shearing operation and the erection of the hairs which were depressed, the skin exhibits a pattern consisting of short-haired strips or patches, of the color of the hairs at their base, and long-haired strips or patches, of the color of the hairs at their tips.

Apparatus suitable for carrying out this process, is illustrated in the accompanying drawing, in which—

Figure 1 is a side elevation, Fig. 2 a plan view.

The machine illustrated comprises a plurality of knives *a* fixed to a rotatable cylinder *b* and adapted to coact, in shearing, with a knife *c* fixed to a frame adjacent to the cylinder. Rollers *d* mounted as shown in Fig. 1 support an endless conveyer band *e*, by means of which the skin *g* can be fed past the knife *c* so that the hair on the skin can be clipped by the knives *a* and *c*. Narrow bands *f* of india rubber or the like pass around the skin on the conveyer band and hold the skin to the band, and at the same time depress the hairs on the strips which they cover, so that these hairs are not clipped by the knives.

By rotating the cylinder *a* while the skin on the conveyer is traveling past the knives the tips of the upstanding hairs between the bands *f* are shorn off. When the bands *f*

are subsequently removed from the skin, and the hairs which they have covered are erected, the effect obtained is that of a striped pattern. If the tips of the hairs were dyed, before the shearing operation, the stripes of the pattern are of two different colors, namely the color of the dye, where the hairs are not clipped, and the natural color of the hairs, where the dyed tips have been shorn off.

By moving the skin to and fro, transversely to the direction of its travel past the knives, during the shearing operation, patterns with undulating or zig-zag stripes can be obtained. The bands *f* need not be straight edged; their edges may be serrated, undulating, or otherwise cut so that the bands individually impress regular or irregular patterns in the hair of the skin. Instead of using continuous bands *f*, pattern sheets of suitable shape and size may be attached to portions of the skin, so as to depress the hair which they cover.

What I claim as my invention and desire to secure by Letters Patent of the United States is:—

1. The process of producing patterns on hair-covered skin which consists in dyeing the tips of the hairs, depressing the hairs on selected portions of the skin, and shearing off the dyed tips of the undepressed hairs.

2. The process of producing patterns on hair-covered skin which consists in dyeing the tips of the hairs, depressing the hairs on selected portions of the skin by means of covers fastened to the skin, and shearing off the tips of the undepressed hairs by means of a shearing machine.

In witness whereof I have signed this specification in the presence of two witnesses.

PAUL MERKEL.

Witnesses:

EDWARD LUGENHEIMER,
RUDOLPH FRICKE.