

S. H. PAXTON.
INK APPLYING DEVICE.
APPLICATION FILED AUG. 26, 1918.

1,313,833.

Patented Aug. 19, 1919.

Fig. 1

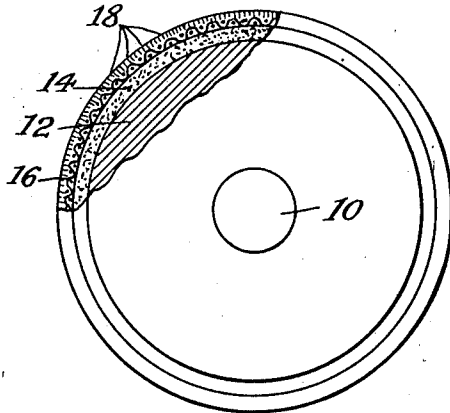


Fig. 2.

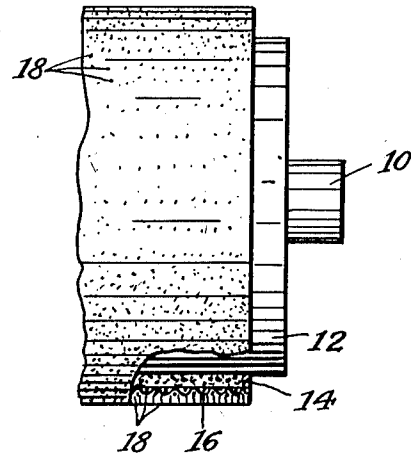


Fig. 3

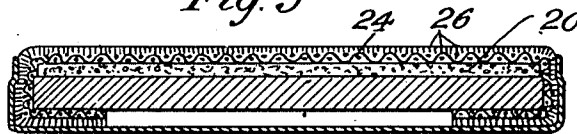
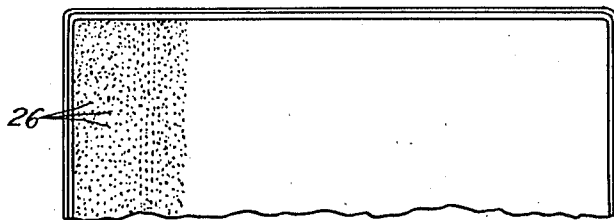


Fig. 4



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UNITED STATES PATENT OFFICE.

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INK-APPLYING DEVICE.

1,313,833.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SHERMAN H. PAXTON, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Ink-Applying Devices, of which the following is a specification.

My invention relates to ink applying devices and is intended particularly for use in applying rubber stamp ink to the type carried by either printing rollers or hand stamps. In devices of this kind commonly in use at present, the ink applying member is saturated with ink and when the printing member comes into contact therewith, an excessive quantity of ink is applied to the type or printing characters so that when an impression is made by such characters, the impression is frequently blurred. Furthermore, an excessive quantity of ink is transferred to the printed impression and hence if the object bearing the impression is handled without giving considerable time for the ink to dry, the hands and clothing of the person become smeared with ink. The object of my invention is to provide an ink applying member which will apply only a sufficient quantity of ink to the printing member to obtain a clear cut impression therefrom, so that the disagreeable blurring and smearing above referred to is avoided. As instances in which my invention may be employed with advantageous results may be mentioned hand stamps used for stamping papers and dispensing devices for gummed tape in which the tape is printed with the name of the dealer or any desired legend as it is drawn out for use in lieu of twine for securing bundles and packages. In regard to the latter device, it is obvious that if the hands and clothing of the purchaser become smeared with ink, the use of the device will be extremely unsatisfactory.

I accomplish the objects of my invention by providing means which applies only a thin film of ink uniformly to the characters of the printing member so that the ink contained in the impression becomes immediately intimately associated with the material which is printed upon.

The full objects and advantages of my invention will appear in connection with the detailed description thereof and the novel features embodied in the invention are particularly pointed out in the claims.

Referring to the accompanying drawings which illustrate two of the embodiments which my invention may assume, Figure 1 is a side elevational view partly in section of an ink applying roller. Fig. 2 is a front elevational view partly in section of a portion of the roller. Fig. 3 is a view in cross section of an ink applying pad. Fig. 4 is a top plan view of the pad.

In Figs. 1 and 2, 10 designates one of the trunnions of a roller or supporting member having a pad 14 of absorbent material, such as felt, secured around the periphery thereof. Around the felt pad is secured an ink applying member consisting of a portion 16 from which extend outwardly a multiplicity of fine hair like members or filaments 18. This member may be made from velvet, plush or other cloth having a napped surface. In use the felt pad may be impregnated with ink, but the filaments or napped portion will carry only a limited amount thereof. When a printing roller is brought into contact with the ink applying roller, the filaments deposit a thin film of ink upon the type characters sufficient to cause them to make a clear cut impression without blurring. The amount of ink used to make the impression is so small that it immediately becomes so intimately associated with the paper or other material which is being printed, that no smearing will occur even when the impression is vigorously rubbed.

In Figs. 3 and 4, 20 designates the felt portion of a pad having an ink applying member secured over the top thereof. This member consists of a portion 24 from which extend a multiplicity of fine hair like members or filaments 26 and this member may be made from the material previously mentioned. In order to use the pad, the ink is first applied to the ink applying member and worked into it so as to impregnate the felt and leave only a limited amount of ink on the filaments. When the printing stamp is brought into contact with the ink applying member, a thin film of ink is deposited by the filaments upon the printing characters. As the ink is taken from the filaments by continued use, a fresh supply is furnished them on account of capillary attraction which causes small quantities of ink to be taken from the supply contained in the impregnated felt pad whereby the filaments are always kept supplied with the requisite amount.

The operation and advantages of my invention will be obvious from the foregoing description. Not only is blurring and smearing avoided, but the action of the filaments upon the type characters is to keep them clean, particularly upon their edges so that a clear cut impression is obtained when such characters are brought into contact with the material to be printed.

10 I claim:

1. An ink applying device consisting of an absorbent pad and an ink applying member secured thereto, said applying member having a multiplicity of filaments similar to
15 plush or velvet extending therefrom adapted to carry a limited quantity of ink whereby a

thin film of ink may be applied to the characters of a printing member by contact with said filaments.

2. An ink applying device consisting of a 20 felt pad which constitutes a source of supply of ink and an ink applying member secured over said felt pad, said applying member consisting of material having a napped surface adapted to take up small 25 quantities of ink from the felt pad whereby a thin film of ink may be applied to the characters of a printing member by contact with said napped surface.

In testimony whereof I hereunto affix my 30 signature.

SHERMAN H. PAXTON.