J. RANZ.

PRINTING DEVICE.

APPLICATION FILED FEB. 4, 1911.

1,033,073.

Patented July 16, 1912.

FIG. 3.

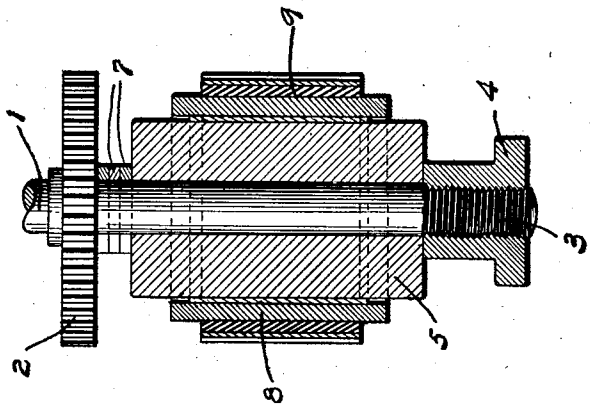


FIG. 2.

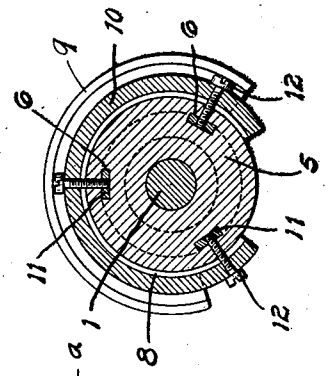
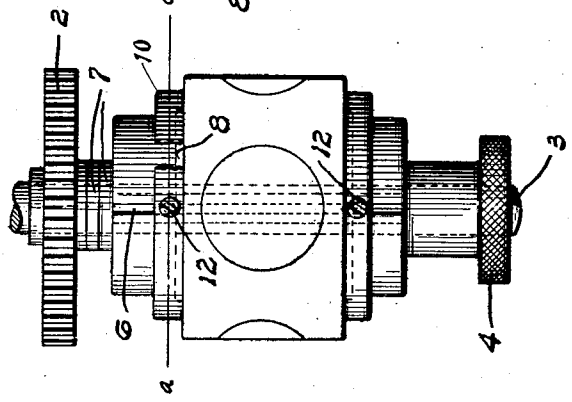


FIG. 1



WITNESSES

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UNITED STATES PATENT OFFICE.

JACOB RANZ, OF ST. LOUIS, MISSOURI, ASSIGNOR, BY MESNE ASSIGNMENTS, TO R. T. WINTERMAN, OF ST. LOUIS, MISSOURI.

PRINTING DEVICE.

1,033,073. Specification of Letters Patent. **Patented July 16, 1912.**

Original application filed August 23, 1909, Serial No. 514,203. Divided and this application filed February 4, 1911. Serial No. 606,523.

To all whom it may concern:

Be it known that I, JACOB RANZ, a citizen of the United States, residing at St. Louis, Missouri, have invented a certain new and useful Improvement in Printing Devices, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevational view of my improvement; Fig. 2 is a sectional view taken on the line *a—a* of Fig. 1; Fig. 3 is a sectional view taken on a plane passing through the center of the improved device.

This application is a division of my copending application Serial No. 514,203, filed August 23, 1909.

My invention relates to a printing machine, and the object of my present improvement is to provide a simple and efficient form of printing surface.

The improvement is shown in my former case as applied to a machine for printing on bottles, and is especially adapted for such purpose, but it is clear that it may be used in connection with many other and different printing devices.

My invention consists, therefore, in certain novel features of construction and arrangement of parts hereinafter more fully described and claimed.

Referring to the accompanying drawings, 1 indicates the supporting shaft, having an operating gear 2 attached at one end, said shaft being threaded at its opposite end 3, for the reception of a nut 4.

Mounted on the shaft 1 is a cylinder 5, which is provided with a series of longitudinal grooves or slots 6 of T-shape, in cross section, arranged around the periphery thereof.

Extending between the cylinder 5 and the gear 2 is a series of split washers 7, which provide means for positioning the cylinder properly on the shaft 1.

Carried by the center portion of the cylinder is a segmental plate 8 of thin sheet metal, and carried thereby is a segmental member 9 of rubber or analogous material, upon the outer surface of which is placed a mark or type face of the printed matter which is to be applied to the bottles or other articles desired to be printed.

10 designates segmental clamping rings which clamp over either end of the plate 8, and passing through said rings and into blocks or nuts 11, which occupy the slots 6, are set screws 12. This construction permits the printing member 9 to be adjusted longitudinally and circumferentially upon the cylinder 5.

I am aware that minor changes in the construction, arrangement and combination of the various parts of my device can be made and substituted for those herein shown and described, without departing from the nature and spirit of my invention.

What I claim is:

In a device of the class described, a shaft, a cylindrical member mounted thereon, means for adjusting said cylindrical member longitudinally of said shaft, said cylindrical member being provided with longitudinal grooves which are T-shaped in cross section, a plurality of nuts carried loosely in the bottom of said grooves, an elastic printing surface provided with a metal backing extending beyond the edges of said printing surface mounted on said cylindrical member, a pair of independently adjustable split rings mounted upon said cylindrical member and provided with screws adapted to engage the nuts whereby said rings are adapted to be clamped down upon the ends of the metal backing plate to clamp it in position upon the cylindrical member, the construction being such that the rings are independently movable and the printing surface longitudinally and circumferentially adjustable upon the cylindrical member.

In testimony whereof I hereunto affix my signature in the presence of two witnesses, this 31st day of January, 1911.

JACOB RANZ.

Witnesses:
J. W. CLIFT,
M. P. SMITH.