March 29, 1927. 1,622,265

F. ACKERMANN ET AL

ADJUSTABLE LEATHER STRIP CUTTER

Filed March 1, 1926

Fig. 1.

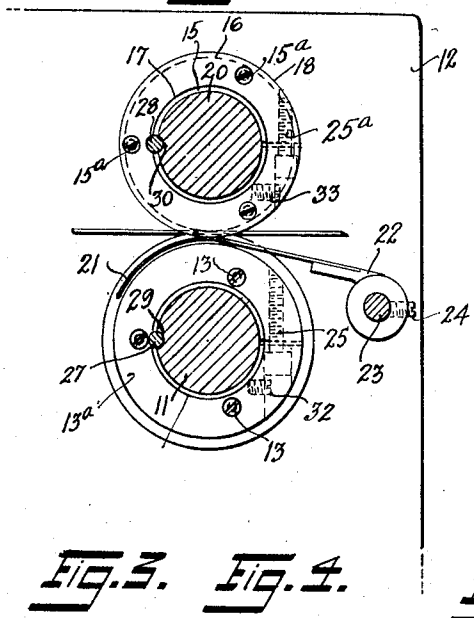


Fig. 2.

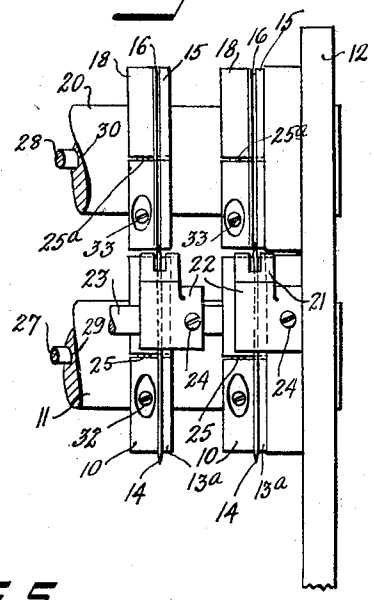
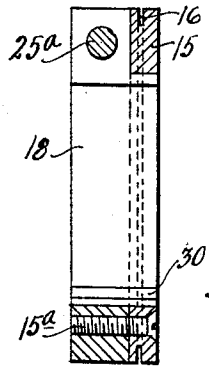


Fig. 3.



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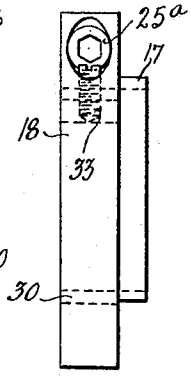

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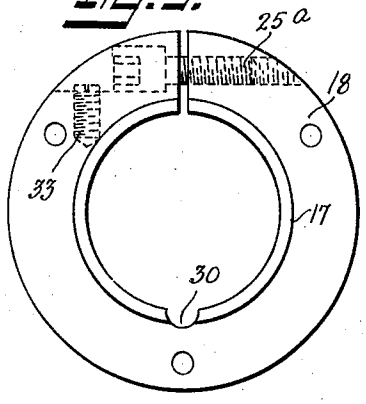


Fig. 7.

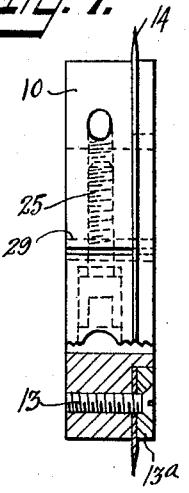


Fig. 6.

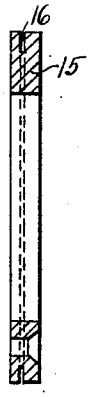
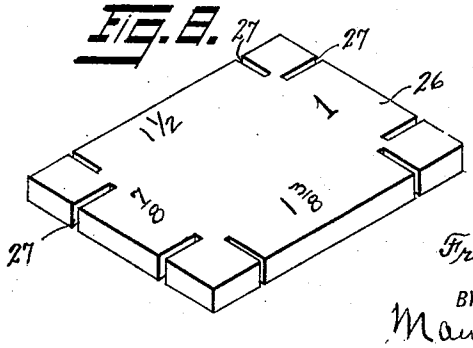


Fig. 8.



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UNITED STATES PATENT OFFICE.

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ADJUSTABLE LEATHER-STRIP CUTTER.

Application filed March 1, 1926. Serial No. 91,340.

This invention relates to improvements in cutting mechanisms used in cutting strips of leather for belts and the like and has for its main object the provision of a series of adjustably mounted cutters and coacting adjustably mounted dies that may readily be adjusted for cutting strips of leather of any required widths.

Another object of the invention is to provide a series of adjustably mounted strippers in connection with such cutting mechanism.

A further object of the invention is to provide a gauge to be used in connection with such cutters to adjust these cutters to any required spacing.

Other objects and novel features of construction of my improved cutters will become apparent and fully described as the specifications proceeds.

Referring to the drawings forming a part of this specification in which like numerals refer to like parts throughout the different views,

Figure 1 is an end view partly in section of my improved cutting and stripping device.

Fig. 2 is a side view of same.

Fig. 3 is a sectional view of one of the die holders with the die mounted thereon.

Figs. 4 and 5 are detail views of the die holding means.

Fig. 6 is a detail view in section of one of the dies.

Fig. 7 is a detail view partly in section of one of the cutters and the mounting means therefor and

Fig. 8 is a perspective view of the gauge.

Referring to the drawings in detail 10 indicates an adjustably mounted split collar a plurality of which may be mounted on a transverse shaft 11 mounted in a frame 12, on each split collar 10 there is secured by screws 13 passing through a disc 13ª a circular cutter 14, directly underneath and in line with the cutters 14 there are provided dies 15 having slots 16 extending through their entire circumference to a depth of about ⅛ of an inch and coacting with the cutter knives 14 to provide shearing means for any material that may be fed through to be cut. These dies which are ring shaped are mounted on projecting portions 17 on split collars 18 adjustably mounted on a shaft 20 journaled in the frame 12, the dies 15 being secured to the collars 18 by means of screws 15ª. To prevent the material that is cut from sticking to the knife 14, stripper plates 21 are provided, said stripper plates are secured to brackets 22, adjustably secured by means of screws 24 on a shaft 23 journaled in the frame 12.

To adjust the cutters to any required spacing all that is necessary to do is to unloosen a screw 25 in the split collars 10 and slide the collars 10 having the knives or cutters 14 secured to them closer together or further apart as the case may be. A gauge plate 26 having slots 27 cut along its edges may be used to gauge the required distance between the knives 14. It is to be understood in this connection that the cutters, dies and strippers may all be shifted or slid simultaneously by unloosening the screws 25 in the cutter collars 10, screws 25ª in the die collars 18 and the screws 24 in the stripper brackets 22. Sliding means for the dies and cutters are provided through the medium of keys 27 and 28 extending the entire length of the shafts 11 and 20 and keyways 29 and 30 in the collars 10 and 18 respectively.

It sometimes happens after the knives and dies have remained in one position for a great length of time that they stick and cannot readily be moved to a new position on the shaft. To overcome this screws 32 and 33 in the knife collars 10 and die collars 18 respectively are unscrewed to form an abutment for the screws 25 and 25ª and thus force the respective collars to spring open and to be easily slid to their required position.

From the foregoing it will be seen that we have provided an improved cutting and stripping mechanism the different parts of which may be always maintained in proper alinement and readily adjustable for any required spacing.

Having described our invention, what we claim as new and desire to secure by Letters Patent is—

1. In a cutting device of the nature described, a circular cutter, a circular die, comprising a split collar, an extension on the collar, a ring having an annular slot in its peripheral surface, said ring being seated on

the extension and secured to the collar and means for springing the collar.

2. In combination with an adjustably mounted circular cutter, a circular die coacting with the cutter, and comprising a split collar, an extension on the collar, a shaft upon which the die is fastened, a ring having an annular slot in its peripheral surface, said ring being seated on the extension and secured to the collar and means for springing the collar on the shaft.

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