March 20, 1956 L. SASSE 2,738,586

MEASURING DEVICE FOR DARK ROOM FILM CUTTERS

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Fig. 1

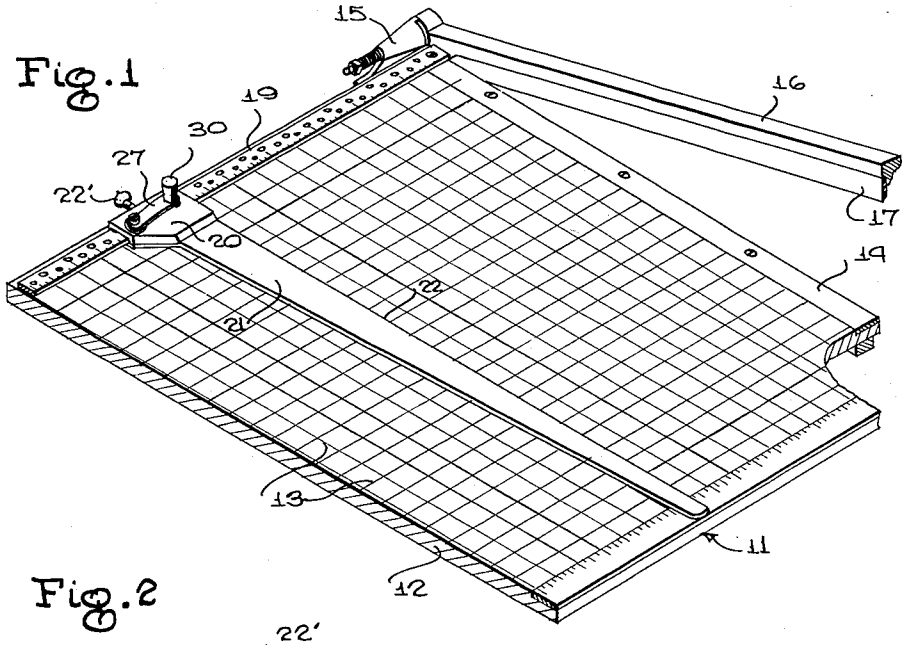


Fig. 2

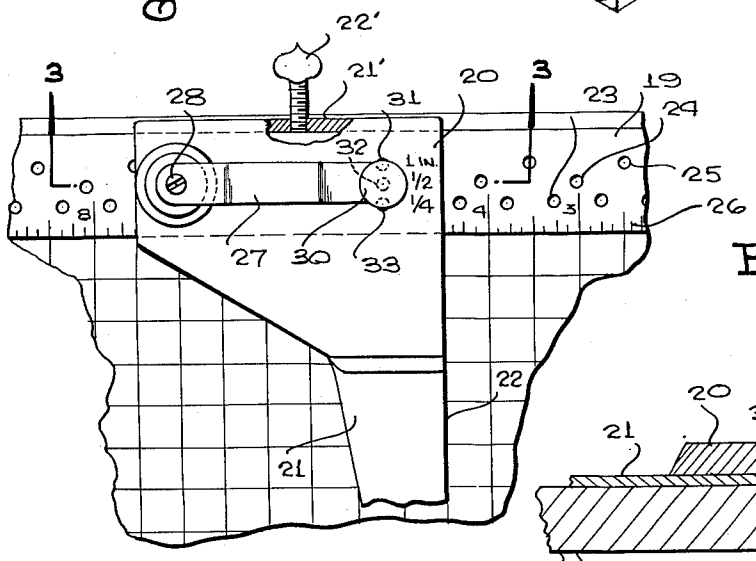


Fig. 4

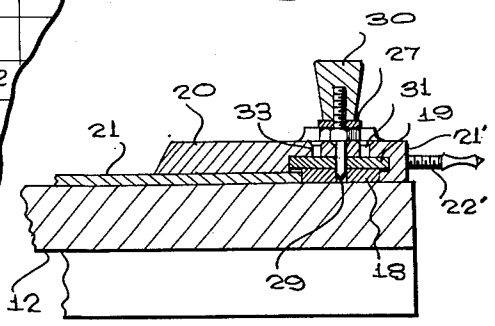
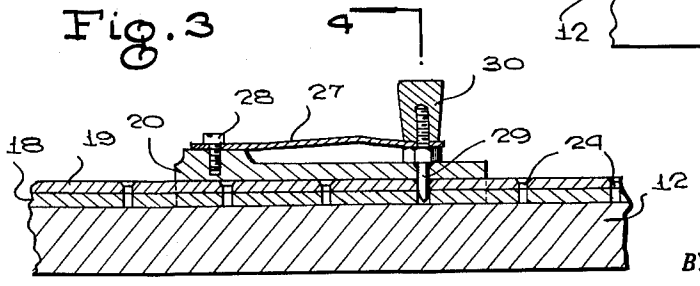


Fig. 3



INVENTOR.
LOUIS SASSE

BY

McMorrow, Berman & Davidson
ATTORNEYS

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MEASURING DEVICE FOR DARK ROOM FILM CUTTERS

Louis Sasse, Hammond, Ind.

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2 Claims. (Cl. 33—81)

This invention relates to film cutting devices, and more particularly to an improved gage device which is suitable for cutting a predetermined length of strip film and which is especially useful for use in dark rooms.

The main object of the invention is to provide a novel and improved film cutter which incorporates gage means which may be set for cutting a predetermined length of film from a film strip, the improved cutter being simple in construction, being easy to manipulate, and being readily adjustable to provide a desired length of cut, in accordance with the size of the negative on a film strip.

A further object of the invention is to provide an improved film cutting board provided with readily settable stop means against which the end of a strip of film may be held to provide a desired length of cut, the device being inexpensive to manufacture, being durable in construction, being easy to operate, and being especially useful in dark rooms where the degree of illumination is insufficient to provide easy reading of the numbers on a measuring scale.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawings, wherein:

Figure 1 is a fragmentary perspective view of an improved film cutting board constructed in accordance with the present invention.

Figure 2 is an enlarged fragmentary top plan view of the guide portion of the adjustable stop bar of the improved film cutting board of Figure 1, showing its engagement on a portion of the guide rail, a portion of the structure being broken away to reveal interior details thereof.

Figure 3 is a cross sectional view taken on the line 3—3 of Figure 2.

Figure 4 is a transverse vertical cross sectional view taken on the line 4—4 of Figure 3.

Referring to the drawings, the film cutting board is designated generally at **11** and comprises a generally rectangular main body **12** which may be provided on its top surface with the usual coordinate lines **13** and which has secured to one margin thereof the steel shearing strip **14**. Pivotally connected in a conventional manner at **15** to the corner portion of the board **12** for rotation shearingly past the stationary shear strip **14** is the cutting bar **16**, said cutting bar being provided with the conventional cutting blade **17** which is shearingly cooperative with the stationary shear strip **14**.

Secured to one marginal portion of the board **12** at right angles to the shear strip **14** is a supporting strip **18** on which is secured a wider strip **19**, thus defining a generally T-shaped guide rail extending at right angles to the plane of rotation of the cutting bar **16**. Slidably engaged on the guide rail thus defined is the channeled member **20** to which is secured the elongated flat stop bar **21** having a straight edge **22** facing and extending parallel to the marginal strip **14**.

The channeled slide member **20** is provided with the depending grooved outer flange **21** which receives the outer edge of the strip **19**, as shown in Figure 4, the slide member being also grooved to receive the inner edge of said strip **19**, as shown, the flange **21'** being provided with the thumb set screw **22'** which is clampingly engageable with the edge of strip **19** to lock the slide member **20** in adjusted position on the guide rail.

The guide rail is formed with respective rows of apertures **23**, **24** and **25** and with the marginal inch scale **26**. The longitudinally aligned outer apertures **25** are transversely aligned with the half inch marks of the inch scale **26**, the longitudinally aligned intermediate apertures **24** are transversely aligned with the inch marks of the inch scale **26**, and the inner longitudinally aligned apertures **23** are transversely aligned with the quarter inch marks of the inch scale **26**. Designated at **27** is a spring arm which is pivotally connected at one end as indicated at **28** to the rear portion of the slide member **20** for movement about a vertical axis, the pivotal connection **28** overlying the strip **19**. Secured to the free end of the spring arm **27** is the depending detent pin **29** which extends through the spring arm **27** and which has threadedly secured to the top end thereof the handle **30**. The slide member **20** is formed with three apertures **31**, **32** and **33** which are respectively registrable with the longitudinally aligned apertures **25**, **24** and **23**, and the detent pin **29** is located so as to be selectively insertable in any one of the apertures **31**, **32** or **33**, whereby said detent pin may be engaged in any one of the apertures **25**, **24** or **23**. It is thus possible to adjustably secure the stop bar **21** in any desired position along the strip **19** at quarter inch intervals along the inch scale **26** by engaging the detent pin **29** through one of the apertures **31**, **32** or **33** with the selected aperture **25**, **24**, or **23**. When the desired adjustment of the stop bar **21** has been thus made, the top bar may be rigidly locked in its adjusted position by tightening the thumb set screw **22'** in the manner above described to clamp the slide member **20** to the strip **19**.

In using the device, the stop bar **21** is set to its proper position, in accordance with the length of the negative on the strip of film to be cut, and the strip is then positioned with its end abutting the straight edge **22** of the stop bar **21**. The cutting arm **16** is then moved downwardly to shear off the desired length of film strip, and then said cutting arm is raised, whereby the film strip may be pushed inwardly until the previously severed edge is placed in abutment with the straight edge **22** of the stop bar **21**, whereupon the cutting operation may be repeated. When a film strip of different negative length is to be cut, it is merely necessary to release the clamping screw **22'** and to readjust the position of the stop bar by elevating the handle **30** and moving the slide member **20** to a new position, in accordance with the length of the negative to be cut, the stop bar being thus movable in quarter inch intervals or in multiples of quarter inch intervals by suitably positioning the detent pin **29** in selected ones of the apertures **31**, **32** and **33**, or in the required sequence of said apertures to measure off the desired increment of movement of the stop bar **21**. It will be readily apparent that the readjustment of the stop bar **21** may be accomplished without the necessity of viewing the inch scale **26**, since the increments of distance may be mechanically selected and measured off by moving the slide member **20** until it becomes locked by the descent of the detent pin **29** into one of the apertures **23**, **24** or **25**, in accordance with the setting of the detent pin **29** in one of the apertures **33**, **32** or **31** of the slide member **20**. Therefore, the stop bar **21** may be adjusted in the dark room at any time to provide any desired length of cut on a strip of film.

While a specific embodiment of an improved film cutting device has been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore, it is intended that no limitations be placed on the invention except as defined by the scope of the appended claims.

What is claimed is:

1. A measuring device for dark room film cutters comprising a board, a supporting strip arranged in superimposed relation with respect to the board and extending along one end adjacent the edge thereof and secured to said board a wider strip carried medially of its width on said supporting strip longitudinally thereof above and parallel to said board to define a T-shaped guide rail, said wider strip having a row of spaced apertures extending longitudinally therealong intermediate the side edges thereof, a slide member provided with grooves complementarily formed to said guide rail whereby said member is mounted on said guide rail for longitudinal sliding movement therealong, said slide member being provided with an aperture registrable with an aperture of said row of spaced apertures, a stop bar positioned perpendicularly with respect to said guide rail and connected to said slide member for movement therewith, a spring arm arranged above and connected at one end to said slide member, and a detent pin projecting from the other end of said arm insertable into and withdrawable from the aperture in said slide member and a registering aperture of said row of apertures when the slide member has been moved on said guide rail so that its aperture is in registry with one of the apertures of said row in said wider strip.

2. A measuring device for dark room film cutters comprising a board, a supporting strip arranged in superimposed relation with respect to the board and extending along one end adjacent the edge thereof and secured to said board, a wider strip carried medially of its width on said supporting strip longitudinally thereof above and

parallel to said board to define a T-shaped guide rail, said wider strip having a plurality of spaced rows of equally spaced apertures with the apertures in each row arranged in longitudinal spaced relation therealong intermediate the side edges thereof and the spacing in each row different than the spacing in the other rows, a slide member provided with grooves complementarily formed to said guide rail whereby said member is mounted on said guide rail for longitudinal sliding movement, said slide member being provided with a plurality of spaced apertures arranged transversely thereof with one aperture in registry above one of said rows of apertures, a stop bar positioned perpendicularly with respect to said guide rail and connected to said slide member for movement therewith, a spring arm arranged above and pivotally connected at one end to said slide member for movement about a vertical axis, and a detent pin projecting from the other end of said arm insertable into and withdrawable from one of said apertures in said wider strip and a registering aperture of one of said rows when the slide member has been moved so that said one of its apertures is in registry with one of the apertures of one of said rows.

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