Dec. 31, 1957 J. A. PHARRIS ET AL 2,817,868

PAINT ROLLER SHIELD

Filed March 22, 1955

Fig. 1.

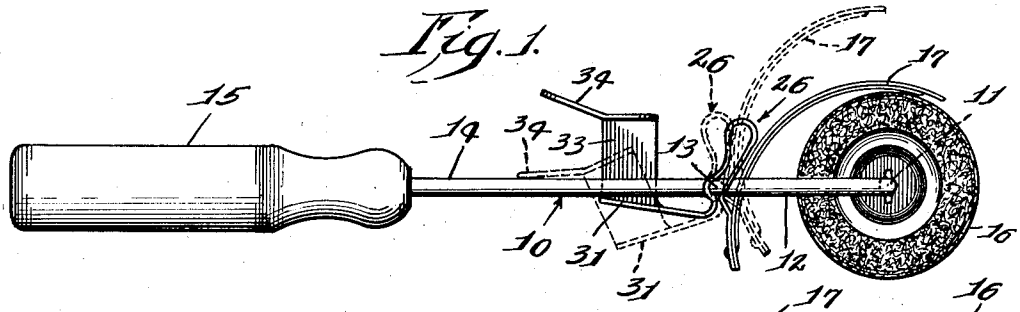


Fig. 2.

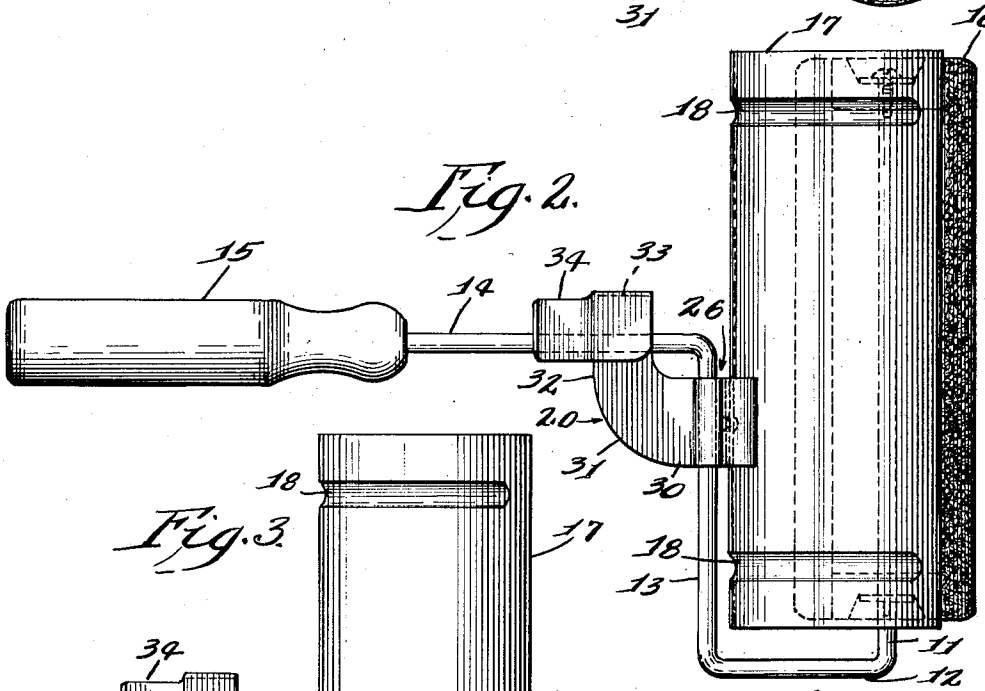


Fig. 3.

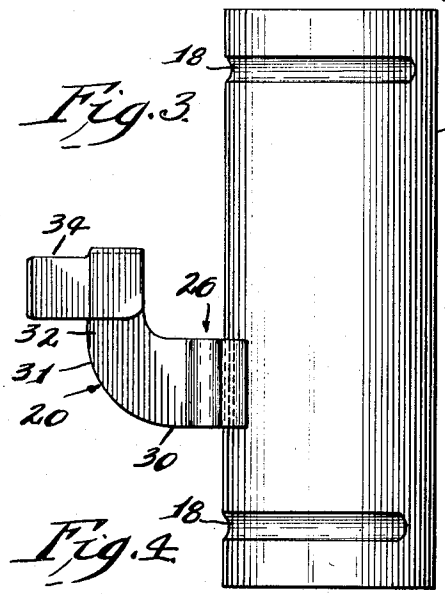


Fig. 5.

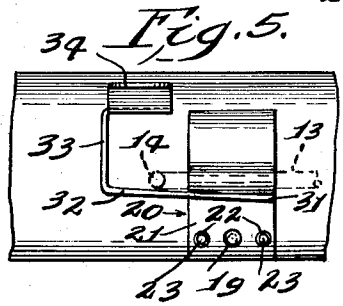
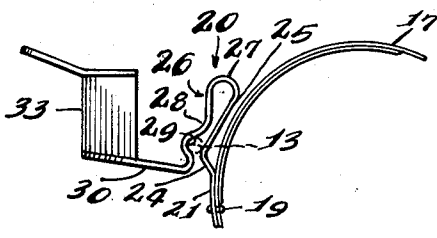


Fig. 4.



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PAINT ROLLER SHIELD

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3 Claims. (Cl. 15—248)

This invention relates to a shield, or spray guard for a paint roller; and in particular it relates to a shield which may be snapped into place on the roller supporting frame.

The principal object of the invention is to provide a light and inexpensive sheet metal spray shield which may be snapped onto the paint roller frame.

A further object of the invention is to provide a spray shield which is secured to the roller frame by means of a one-piece spring clip which may be formed from sheet metal in conventional shearing and forming operations.

A further object of the invention is to provide a spray shield which has a finger piece extending along the handle so that it may be rocked on the roller frame to move the upper part of the shield with respect to the roller for easier loading of the roller. The finger piece is so positioned that it may be depressed with the thumb of the roller-holding hand to move the shield in one direction, and has a portion projecting laterally with respect to the handle beneath which the thumb or index finger may be placed to move the shield in the opposite direction.

A further object of the invention is to provide a spray shield which is slightly longer than the paint roller, but shorter than the length of the roller spindle. This permits the clamp to be slid along the roller frame in a direction away from the free end of the spindle so that the shield does not interfere with painting around the junction of two walls, the wall and the ceiling or above a baseboard.

A further object of the invention is to provide a paint shield in which the one-piece spring clip and finger piece assembly is so constructed that there is a U-shaped portion which has arms above and below the roller handle which limit the rocking movement of the clip on the frame.

Further objects of the invention will be apparent from the following detailed description and drawings, in which:

Fig. 1 is a side elevational view of a paint roller equipped with a shield of the present invention, the shield being shown in solid line in one extreme position and in broken line in the other extreme position;

Fig. 2 is a top plan view with the shield in the solid line position of Fig. 1;

Fig. 3 is a plan view of the shield detached from the roller;

Fig. 4 is a side elevational view of the shield with a portion of the roller frame to which the shield attaches shown in broken lines; and

Fig. 5 is a fragmentary rear elevational view of the shield with a portion of the roller frame to which the shield attaches shown in broken lines.

Referring to the drawings in greater detail, and referring first to Figs. 1 and 2, a paint roller has a roller supporting frame indicated generally at **10**, said frame including a spindle **11**, a spindle spacer portion **12**, a handle connector portion **13** which is parallel to the spindle, and a handle portion **14** which is perpendicular to the handle connector **13** and is substantially opposite the center line of the spindle **11**. The handle **14** is provided with a

hand grip **15**. A conventional paint roller **16** is journalled on the spindle **11** with its inner end in spaced relation to the spacer portion **12** of the frame.

Referring particularly now to Figs. 3 to 5, the spray shield of the present invention includes an arcuate sheet metal shield member **17**, which has a pair of circumferential stamped strengthening ribs **18** near its ends. Secured adjacent the rear margin of the shield by means of a rivet **19** is a one-piece spring sheet metal combined clip and finger piece member indicated generally at **20**. As best seen in Fig. 4, the member **20** has an attaching portion **21** to receive the rivet **19** which is provided with a pair of holes **22** which closely embrace stamped bumps **23** on the shield member to prevent lateral rocking of the shield member on the clip member. At the upper end of the fastening portion **21** the clip member **20** is bent outwardly at **24** and then inwardly in a plane close to the shield member **17** to provide one leg **25** of a generally U-shaped, or hairpin-like clip element indicated generally at **26**. The base **27** of the U is rounded to afford a strong spring action, and the second arm **28** of the U has a recess **29** to receive the handle connector portion **13** of the roller frame, as seen in Fig. 1, or by the broken lines showing the handle connector **13** in Fig. 4. Immediately below the recess **29** the one-piece spring clip and finger piece **20** is bent outwardly to form one leg **30** of an L-shaped spacer portion **31** which, as best seen in Figs. 1 and 2, has a second arm **32** extending beneath the handle portion **14** of the roller frame. At the outer end of the L-shaped spacer **31** is an upright **33** at the upper end of which the member **20** is bent back nearly parallel to the L-shaped spacer portion **31** to provide a finger piece **34** which lies above the handle **14** and extends longitudinally toward the hand grip **15**. The second arm **32** of the L-shaped spacer combined with the upright **33** and the finger piece **34** forms a U-shaped portion, and as seen in Fig. 1 the finger piece **34** above the handle serves as an integral arm which limits the movement of the clip in one direction while the integral second arm **32** of the L-shaped spacer limits movement of the clip in the opposite direction by striking the handle.

The shield is shown in Fig. 2 in its normal position, centered with respect to the roller. If the shield is moved toward the spacer portion **12** of the frame (downwardly as seen in Fig. 2) it moves the end of the shield near the outer end of the spindle inside the plane of the end of the roller so that the shield does not interfere with use of the roller in the angle between two walls, or any similar location.

Inasmuch as substantially all commercial paint rollers today are constructed with the same type frame as heretofore disclosed, and in substantially all cases the frame material is rod stock of the same gauge, the shield of the present invention with its spring clip may be used upon most commercial paint rollers.

The foregoing detailed description is given for clearness of understanding only and no unnecessary limitations are to be understood therefrom, as some modifications will be obvious to those skilled in the art.

We claim:

1. A shield for a paint roller having a roller supporting frame which includes a roller spindle joined at one end to a parallel handle connector having a handle perpendicular thereto which is substantially opposite the center line of the spindle, said shield comprising: an arcuate shield adapted to lie between the roller and the handle connector; and fastening means on said shield, said fastening means including a spring clip provided with a recess for snap engagement of the clip on the handle connector, and a pair of integral arms adapted to be positioned above and below the handle to limit rocking movement of the shield on the handle connector.

2. A shield for a paint roller having a roller supporting frame which includes a spindle joined at one end to a parallel handle connector having a handle perpendicular thereto which is substantially opposite the center line of the spindle, said shield comprising: a one-piece spring clip in the form of a deep, narrow U-shaped member having a recess near the open end of the U and diverging from the recess for easy snap engagement with the handle connector so that the clip is rockable on the axis of the connector; an arcuate shield on one arm of said spring clip to lie between the roller and the handle connector, said shield being substantially the length of the roller and an L-shaped integral spacer portion on the other arm of the clip which extends away from the shield in a plane generally perpendicular to the clip, said spacer portion terminating in a generally U-shaped member which has upper and lower arms adapted to be positioned above and below the roller handle and in spaced relation thereto to limit rocking movement of the clip by contact of one or the other of said arms with the handle, the upper arm providing a finger piece for manually rocking the shield.

3. A shield for a paint roller having a roller supporting frame which includes a spindle joined at one end to a parallel handle connector having a handle perpendicular thereto which is substantially opposite the center line of the spindle, said shield comprising: a one-piece combined sheet metal spring clip and finger piece which includes a

generally U-shaped clip portion having a recess in one arm of the U adapted for snap engagement with the handle connector and an L-shaped spacer portion extending from one arm of the clip portion, said spacer portion terminating in a generally U-shaped member having upper and lower arms which are adapted to be positioned above and below the handle so that the upper arm affords a finger piece for manually rocking the clip and said arms may limit rocking movement of the clip by contact of one or the other of said arms with the handle, and an arcuate shield on the clip portion adapted to lie between the roller and the handle connector, said shield being substantially the length of the roller and shorter than the spindle.

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