

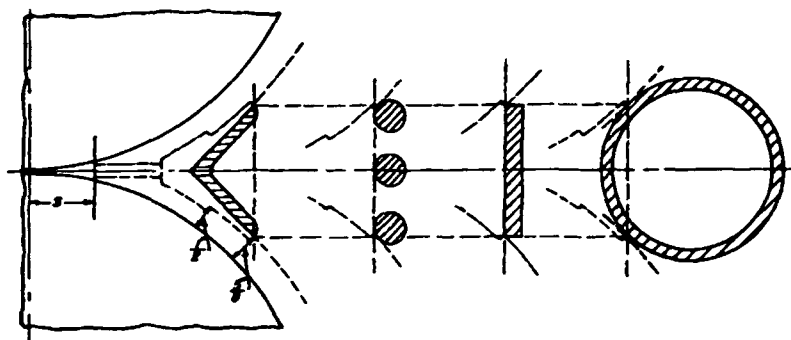


FIG 29-10 —Different designs for a roll nip guard where feeding over or under a guard with $\frac{1}{8}$ -in opening is desired

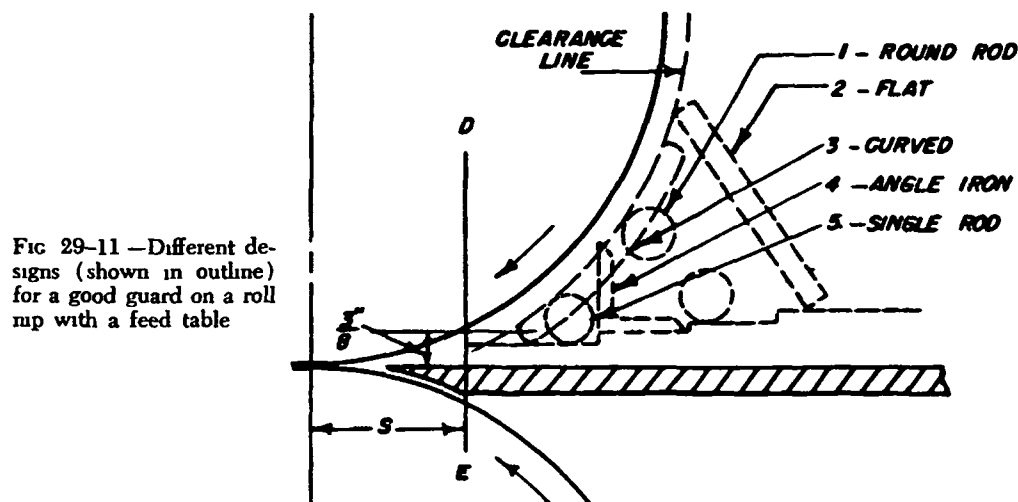


FIG 29-11 —Different designs (shown in outline) for a good guard on a roll nip with a feed table

shifted accordingly)

To design a properly placed barrier guard fitted with an opening for passage of stock, the following procedure is suggested

- 1 Draw a full-scale outline of the nip zone with the stock travel line accurately shown. Indicate the clearance line on both rolls. If more than a $\frac{1}{8}$ -in clearance is required between the edges of the guard and the rolls, the edges of the guard should be located in accordance with the safe opening layout shown in Fig 29-9 for layout on a roll surface.
- 2 Determine distance S—the distance from the vertical line of the rolls to a point where a $\frac{1}{16}$ -in vertical space exists on each side of the travel line of the stock (total nip width of $\frac{1}{8}$ in), as shown in Fig 29-8.
- 3 At this point, begin the layout of the dimensions shown centered on the travel line in Fig 29-5. Outline the guard sections, giving the required opening between sections. (One edge of each section will touch a clearance line, the other will touch the safe opening layout at the proper point to give the required opening.) Determine the necessary dimensions for properly locating the guard from this final layout. The width of the guard sections can also be determined.
- 4 Before the guard is put in operation, check carefully for hand travel under the guard, stability of mounting, and rigidity of construction.