## TELEVISTON DISKS YOU CAN MAKE No matter what size of disk or

 number of holes is used, a slight alteration of the indexing gauge will meet the requirements. For practical purposes, this is quite necessary, as no fixed standards have been set at this time and different scanning methods are in use in various parts of the country. Television disks may be made of cardboard or, preferably, from sheet aluminum. The metal should be as thin as possible consistent with strength, because if thick metal is used the walls of the holes often act as reflectors. However, this may be remedied by countersinking the holes. Aluminum about .125 in . thick is very good for experimental purposes.Several stations broadcasting television programs in the middle west are employing a three-spiral 45-hole scanning method, and the gauge for laying out this type of disk will be discussed first. The enlarged details of the indexing plate and clamps for holding it in position on the gauge are shown in Fig. 1. The length of the gauge,


indexing plate and the divisional spacing for both 18 and $221 / 2-\mathrm{in}$. disks are given. The holes are spotted on these divisions, and the diameter of the hole is the same as the spacing.

The $221 / 2$-in. disk scans a picture about the size employed in moving-picture film, and a lens may be used to enlarge this image several times without distortion. It should be understood that, when holes are mentioned, it means the center point of each hole and these points must be clearly defined with a marking tool when the disk is laid out. The cumplete gauge dimensions are given in Fig. 2 for the 22 $1 / 2$ -
in. diameter disk. The picture size is 1.125 in. high by 1.533 in . wide, the holes are spaced as indicated for each of the three spirals and should be drilled at high speed to insure clean walls and correct diameter.

