

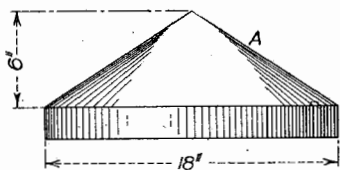
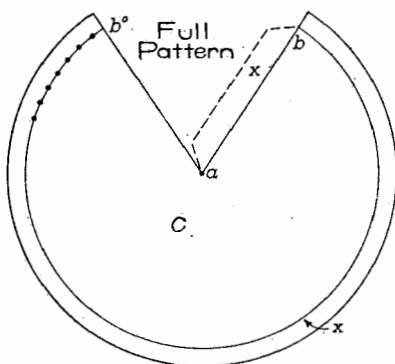
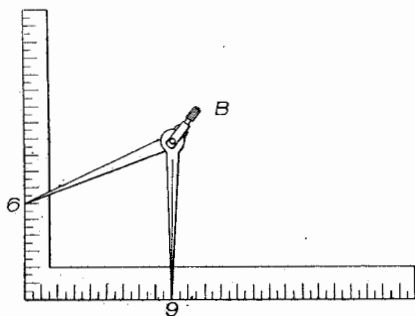
Pattern for Flaring Hood

By WILLIAM NEUBECKER

In laying out a pattern for a flaring hood similar to A in the accompanying illustration, a short method can be used in finding the radius with which to strike the pattern without making any diagram or drawing. If a hood were desired 18 in. in diameter, having a center vertical height of 6 in., the method of procedure would be as follows:

With a steel square, as shown in B, set one leg of the dividers at 6 and the other at one-half of 18, or 9, and using *a* in C as center, describe the arc *b b°* directly on the metal.

Draw any radial line as *b° a*. Now find the circumference of the 18-in. diameter hood, by multiply-



Pattern for a Flaring Hood

ing 18 by $3\frac{1}{8}$, which will give $56\frac{1}{4}$ in. circumference. Set the dividers equal to 1 in. and, starting from *b°* in the pattern C, step off 56 of these divisions around the arc *b° b*, add $\frac{1}{4}$ in. and draw a line from *b* to *a*.

This completes the pattern to which edges must be allowed for riveting and seaming. This rule may be used for chimney caps, deflectors in furnace hoods, or wherever a flaring bonnet is required.