

#### 15—Hall Umbrella Rack

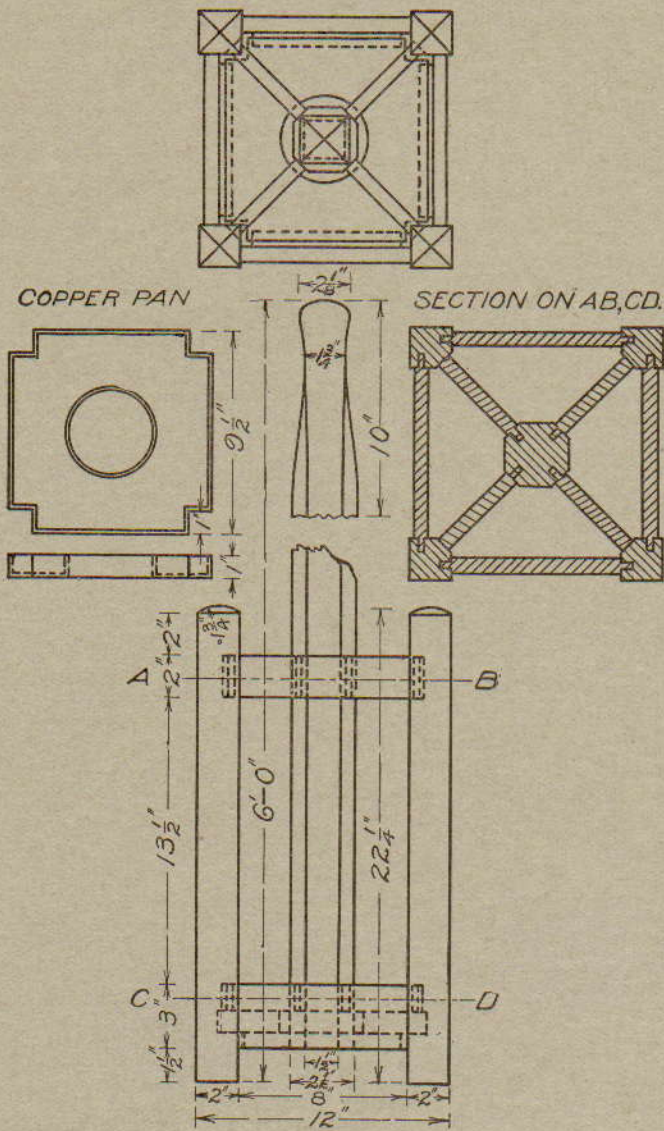
An eighth grade problem. Chestnut has been used with considerable satisfaction and success in the construction of this project. As indicated in the article by the author in the Manual Training Magazine for April, 1906, there is a chance for study in filling in the sides to make a good panel scheme. It is believed that the horizontal strips alone may be used with much satisfaction if those near the bottom are placed farther apart than those near the top, and not more than four are used on a side. An ordinary shallow sheet-iron pan colored by covering with lard oil and heating repeatedly in the fire will make a good bottom. A better pan, and one which will be more appropriate in color to harmonize with the brown stains, will be made of copper. This is a good piece for fuming.

#### 16—Hat and Umbrella Rack

Preferably a high school problem, although eighth grade boys of unusual ability may work it out. If made of soft pine the corner posts may be cut from 2 x 4 in. stock and the center posts made from two 2 x 4 in. pieces with flat sides glued together. Soft pine with a good grain finished with a dark stain will make this a very appropriate hall piece. In gluing up, the diagonal cross pieces should be glued into the center post before the framework is glued together; then as the last gluing on the framework is done, the center post with these projecting pieces, will be set inside and the ends slipped into the grooves (where the corners of posts have been sawed out to receive them) and bradded.



# HAT AND UMBRELLA RACK



F.D.C.