



LARGE CAVITY, WITH DECAY REMOVED.



A CAVITY REINFORCED WITH RODS.

reinforcement has been arranged, carefully fill every crevice of the hole with a 1:3 cement sand mortar.

By slightly trimming the edges of the bark around the filling once or twice a season, the bark may be induced to grow entirely over the concrete. The large filling, shown in illustrations on page 123a, contains over a ton of concrete. One day when there was no wind blowing, to endanger the temporarily weakened tree, the cavity was opened up and treated as described above, both nails and wire rods being used for reinforcing. The rods were placed lengthwise in the hollow, and within one inch of its walls and the outside of the concrete. These rods were held in place by wires twisted upon firmly-

driven nails. Two men completed the work in one-half day.

In the case of exceptionally large cavities, the opening is covered by large strips of zinc. Cement is then forced down into every crevice and allowed to set, after which

the zinc is removed, and a coat of fine finishing cement put on and painted the color of the bark. By this method the Tree Surgeon is enabled to build out trees in which fully one-half the wood has been destroyed by lightning or from some other cause.

The treatment above described serves as a fine example of the healing powers of nature. It is truly remarkable how quickly these wounds in trees will heal when protected from moisture and further decay, by the use of concrete.



"THE SURGEON" AT WORK.