

pools and heavily used areas; a tree which has become an intricate part of the landscape may well become disfigured and ugly if insects or disease are active on it or if it is broken down during a storm; short-lived trees die off within a relatively short period of time and leave a conspicuous vacancy if no replacement has been planned; trees should be planted with the mature crown shape in mind so severe pruning will be unnecessary and so that they do not shade one another; dense foliage and shade may restrict the growth of other plants in the area and reduce the air movement so necessary to proper growth of grasses; if a tree grows too high or too low, it may be out of proportion to its surroundings. From this basic list, it is not hard to see how every aspect of

the tree's growth habits should be considered when choosing the proper location.

**2. Affected by Maintenance Equipment Operation**—All too often trees are planted with little thought of the type of equipment used to maintain the area around them. It is easy to see the folly of planting trees 10 feet apart when the mower maintaining the area around them is 14 feet wide. A considerable amount of time and effort may be saved by simply spacing the trees a little farther apart to allow room for the mowing equipment to move between them easily. By the same token, trees are as often placed too close to other objects as they are to one another, creating the same space limitations on equipment.

## Golf Course Vacuum Cleaner

Heinz Lessau, superintendent of the all-grassed golf course at New Mexico Institute of Mining and Technology in Socorro, possesses the rare combination of ingenuity and skill as a metal worker and welder. Out of a smoke vent from an old commercial stove, a metal and rubberized section of a carburetor from a junked B-29 bomber, a section of an air-conditioning vent, the frame of a three-wheel motor scooter, and a motor from a piece of farm equipment, he has fashioned a vacuum cleaner that copes with leaves that tend to clutter his fairways.

Besides picking up leaves, the equipment grinds them to tiny fragments and blows them out on the course. The total cash outlay to construct the vacuum cleaner machine was \$75 and this was to purchase the 12-horsepower motor which operates the combination leaf grinder and blower. A miniature

rubber-tire tractor is used to pull the machine about the links.

Lessau says the machine enables one person to perform the work of five or six men in the removal of leaves from the fairways.

This is only one of several machines Lessau has built. He has access to a supply of surplus military "junk" which he uses profitably in extending his golf course machinery budget. Lessau has adapted low pressure aircraft tires to farm tractors to lessen the damage to wet turf, he has devised a compost grinder, a dump trailer, and has improved spraying equipment. A fertile imagination, his skill as a metal worker and welder, a supply of odd parts and materials, pride of workmanship and a devotion to his job combine to make Heinz Lessau a valuable man on the staff of the New Mexico Institute of Mining and Technology.