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Here's the easiest, quickest way to keep any gang or fairway mower sharp right in your own shop. The Modern Professional Lawn Mower Sharpener has two precision grinding heads—one sharpens the blades and the other the bed knife—grinds true to one 1/000th of an inch! YOU DON'T HAVE TO DISMANTLE THE MOWER! Do both sharpening operations without taking the mower off the sharpener—make mower adjustments at the same time. Blades are ground sharp to extreme edges and no hand filing is needed. Fourteen major improvements in this well known sharpener help you set-up faster and save you time on actual sharpening.

MODERN LAPPING MACHINES—here's a way to prolong a sharpening job to last an entire season. Heavy duty units (greens, fairway and gang mowers may be lapped on the job without disconnecting from frame or tractor unit. Lapping compound is included with this Modern Lapping Machine.

For complete specifications on the Modern Lawn Mower Sharpener and the Modern Lapping Machine, write to the address below. Remember, for modern efficiency and profit, sharpen your equipment the MODERN way.

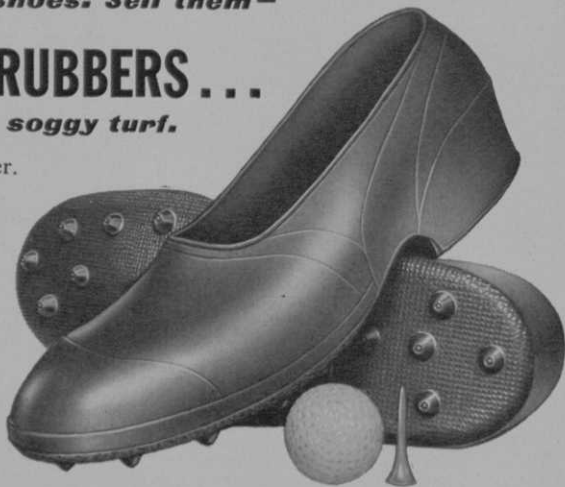
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investigating. Write or phone —**

Ground Crews Have to Hustle

(Continued from page 85)

unprecedented snow. When this vanished in the spring, disease was rampant especially on those courses where no thought was given to snowmold treatment the previous fall. Fortunately, the Toronto area that has been plagued with so many winter problems in recent years, escaped widespread injury in 1961. Supts. there were quick to credit revised maintenance practices which included syringing greens daily as the snow melted off. It is worthwhile in their opinion even though the water lines must be drained each night to prevent freezing and possible breakage.

Fire Wagon Treatment

Tom Johnson, Lachute CC, Quebec, is envied by fellow supts. for his easy method of "showering off" a green. Owner Gilbert Ayres' new fire truck is constantly on guard against desiccation each spring.

Jim Watson's results in using plastic to cover dormant turf during the winter was so striking in 1959-60 that others tried it in 1960-61. At Kern Park in Milwaukee, Ray Greiten, cooperating with the Sewerage Commission, established plots on a ground area flooded each winter for ice skating. Before placing the

polyfilm, some plots were fertilized, seeded and treated with fungicide. Other areas were also planted but not covered. The only turf to come through the winter was in the covered areas.

But at Brynwood CC the results were not good. Excessive growth took place and the cold spell that followed the first cutting killed the succulent grass.

Tests Show Some Promise

In the Toronto area the tests showed promise. Early greening and frost removal was good although covered areas seemed sadly in need of nitrogen six weeks after unveiling. In Montreal one course established plots on a putting green in May, shortly before the first hot weather hit. A weekend with 90 deg. days wasn't good. When the plots were uncovered, the grass was dead.

All of this points to the importance of adequate testing. Results from one year's trials in one location should never be considered conclusive.

Spring deadspot or winter dieback, in Bermuda, was prevalent again this year in the central plains area. It is also becoming quite commonplace in mid-Atlantic states. Work at Oklahoma A & M indicates the insecticide, Dieldrin, is helpful in controlling this pest, but the bug

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or disease responsible for the trouble hasn't been identified. Some of the A & M work also shows that nutrition may be a factor. Observations in Tulsa would bear this out. Meadowbrook CC's fairways there have been severely hit while nearby Southern Hills has experienced no difficulty with this problem.

A dry, cold spring was the major complaint in the northern tier of the central states. This caused grass puffing in some cases and subsequent scalping. On one course no trouble occurred where greens had been aerified. Those that were missed due to the pressure of other work were hard hit by mower damage.

Turf Protection Emphasized

Increasing emphasis was placed on turf protection in 1961. Fairway spraying with fungicides, iron and crabgrass killer was becoming the rule rather than the exception. The trend to lighter more frequent feeding on all turf continued. Jack Ormand at Canoebrook, Summit, N. J., fertilized fairways every two weeks during the summer months. Jack, along with others, is using the rotary or broadcast type of spreader. He finds the savings in time permits more frequent fertilizing, and controlled release of plant food.

This summer we questioned Dr. Love at Wisconsin about the seeming increase in the plant's need for iron. He believes lack of air may be responsible and is investigating different oxygen levels in nutrient solutions. His work is sponsored by the Noer Foundation. Extra air may cut down on the need for iron. If this proves to be the case, it will add to the evidence that compaction is, indeed, our most critical problem.

Increase in Salinity

Southern California had its customary trouble with hot weather and lack of moisture. The moisture situation was the most critical problem. Salinity increased because of poor quality water and the lack of drainage. In fact, the use of tile covered with a gravel blanket before topsoil is added is important to those areas where salts will accumulate. There is no better way to stop the capillary movement of salts to the surface. It also permits occasional excess watering to leach the soluble chlorides and sulphates from the soil.

Turf problems will always be with us. Research is our only hope to stay ahead of them. We are indeed fortunate that so much is being done today that will answer tomorrow's problems.

Golf Clubs Are For Golfers

(Continued from page 35)

expected to wear skirts or dresses and gentlemen, neckties and jackets.

Pay As You Go Operation

Figures aren't made public but Merion is run on a solid business basis. There is enough enthusiasm for golf to make the club self-sustaining. New facilities have to be financed out of available funds. Under the by-laws, members can't be assessed for any deficits or to finance new ventures.

Complementary sports may come to Merion, but right now the prospect is remote. So much so, that recently when one member suggested that a bowling alley be installed, he was made to understand that he was speaking in terms close to sacrilege as far as Merion and its golf is concerned.

Perhaps young people may someday demand more typical country-club activity, but now at least and probably for some years to come Merion will, Jerry Gray repeats, "take its golf straight." The members want it that way apparently because they can't see any other sport that quite comes up to golf.

Joe Black Promoted to PGA Tournament Supervisor Post

Joe Ed Black of Dallas, Tex., has been named PGA tournament supervisor, filling the vacancy created when Harvey Raynor resigned that post last May. Black had been filling the supervisor's job since Raynor's resignation. A onetime Hardin-Simmons University golfer, Joe played the circuit for about two years and formerly served as an assistant pro to Morgan Hampton at Abilene (Tex.) CC and to Vern Farquhar at Ross Rogers GC, Amarillo.

Mark Thomas, Monterey Park, Calif., has been appointed assistant tournament supervisor, moving up from co-ordinator or "advance man," a job that has been taken over by John Tuthill, West Islip, L.I., N.Y. Ron Pawlyck, La Puente, Calif., has been added to the tournament bureau as second assistant to Black.

"This Wonderful World of Golf", Shell Oil Co's weekly hour (4-5 EST) of stars playing great courses will begin Sunday, Jan. 7 on the CBS network. Gene Sarazen will be the commentator.

Give your golfers every scoring advantage...

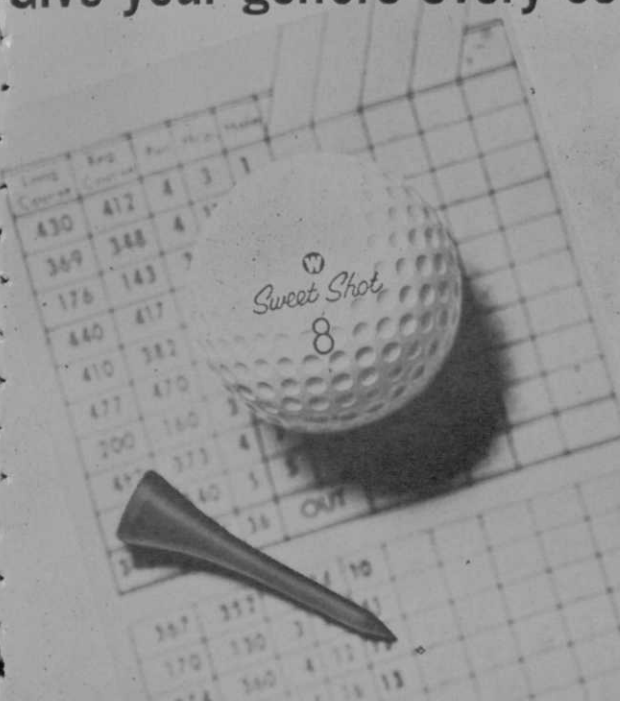
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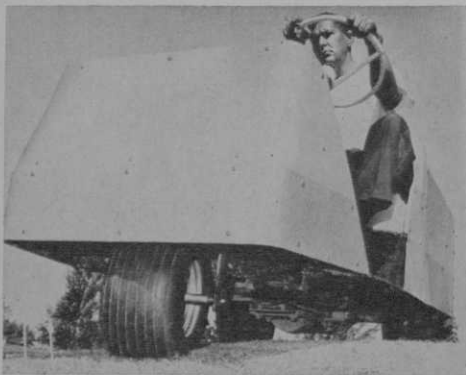
Worthington
GOLF INC. ELYRIA, OHIO



Manufacturing News

Goodyear Produces Tubeless Tire for Conventional Golf Car Rim

Goodyear Tire & Rubber Co. is producing the first tubeless, low profile golf car tire using a conventional rim. Called the Rib Caddy Master tubeless, the tire is said to leave no imprint



on wet or soft turf. The tire operates at low inflation with more uniform ground contact pressure, and has low section height and a wide, flat tread. The straight rib design gives excellent lateral traction for sidehill operation without causing turf damage in straight-forward movement where the tire slips against the ground in rapid starting or stopping. It is also claimed that the tubeless feature improves bruise and puncture resistance and the larger rim diameter increases the transmission of torque.

Golf, Inc. Markets Clover Putters

Clover putters, made by Clover Golf Products, Ft. Worth, Tex., will be marketed by Golf, Inc., Tulsa, Okla., exclusive distributor of Spartan gas-powered golf cars. The Clover putters are of offset shaft design and are available in six models, five in bronze and one in aluminum.

West Point Introduces Companion Aeri-Spiker

West Point Products Corp., West Point, Pa., is marketing the Companion Aeri-Spiker, designed to make topdressing more effective. The unit is self propelled, has adjustable depth set-

ting and folding handle for easy transport. It helps prepare soil for seeding and prunes surface



roots in addition to aerifying. Movement of the blades provides locomotion for the Aeri-Spiker.

MacGregor Tourney DX Gift Balls Available in Three Packages

MacGregor presents a doz. DX Tourney gift balls in a utility case, the lid of which has a full color reproduction of the 9th hole at Oakmont, site of the 1962 USGA Open. The re-



production is from an oil painting. A compact version of this gift also is available in a smaller utility case containing eight balls. Four DX Tourneys are packed in a handsome miniature bag that makes a distinctive pencil "caddie" for home or office.

Stonco Electric Catalog

An eight page catalog, recently issued by Stonco Electric Products Co., Kenilworth, N. J., illustrates a variety of weatherproof cast aluminum fixtures, floodlights and luminaires. Catalog S-62 can be obtained by writing to Stonco.

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**Plan NOW to use these proven products in
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The 10% phenyl mercury acetate for use on all fine turfgrass areas.

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Bowen Adds Sales Reps

Bowen, Inc., Pasadena, Calif., has added four sales reps to cover Calif., the Northwest and Rocky Mountain areas. They are: Ray Worden, Beaverton, Ore. (Ore., Wash., Ida. and western Mont.); Ted Wilson, Denver (Colo., Utah, Wyo., N. M., eastern Mont.); Charles Murphy, Alamo, Calif. (northern Calif. and northern Nev.); Richard Dillons, Glendale, Calif. (southern Calif., southern Nev. and Ariz.).



Seven feet of grass or weed is shredded literally to nothingness with the new Ford 84-in. rotary cutter. Here is the offset-pull model that is equipped with chain guards. The unit also is available in straight-pull and mounted models.

Giant Trail-Vac Makes Quick, Clean Pickups

Three Giant Trail-Vacs (in photo) are ganged behind a tractor for fast, efficient removal of leaves, waste and litter. The Trail-Vac has a heavy duty, gas engine-powered vacuum cleaner



mounted on an easily maneuvered, covered trailer. Complete information may be obtained by writing to Giant-Vac Mfg. Co., South Willington, Conn.

Al Robbins Enterprises, PO Box 887, Evanston, Ill., has added the new Dymo instant label maker to its line.



A couple star women bowlers, Mary Lou Keeling (center) and Rosemary Micheli, were tempted to devote more time to golf by Wally Ulrich of the Fawick Flexi-Grip Co., Akron, O., who gave each a set of clubs at a recent award dinner sponsored by that company. Mary Lou and Rosemary set a new women's doubles record of 1312 that was topped five days later, but any way you look at it, that's a lot of pins. Fawick manufactures golf grips as well as bowling supplies.

Cushmans on Display at Sporting Goods Show

Cushman Motors, Lincoln, Neb., a subsidiary of Outboard Marine Corp., will display its full line of 2-wheel sports vehicles at the National Sporting Goods Assn's annual Western Market show, Oct. 29-31 at the Ambassador Hotel in L. A. Ray Dowd and John C. Daggett will be in charge of the display.

Cizek Introduces Two Golf Car Models

Two low-cost gas engine golf cars have been introduced by Cizek Manufacturing & Distributing Co., Inc., Clutier, Ia. A 3-wheel Senior



Cizek Senior Model

model has a 4 hp, 4-cycle engine and can travel 8 to 10 mph. It can carry four bags and two bags and a water cooler. A lighter model has two front and two rear wheels with bicycle handle bars. It has a 4½ hp, 4-cycle engine, travels 5 mph and has a reverse gear. It will accommodate two bags. The bag holder is removable so that a 3-gang reel mower may be attached.

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Frank D. Andrus (l), pres. of Alco Oil & Chemical Corp., Trenton & Williams st., Philadelphia, and Bernard Coe, head of the firm's research evaluation group, discuss their newly patented "Soil-Set", a rubber-based spray that protects seed, soil conditioners and fertilizers against being blown away or washed out in wind and rainstorms. Soil-Set comes in green, clear and other colors and is packaged in a one gal. can, a quantity that covers about 500 sq. ft.

Rain Bird's Under-Tree Sprinklers

A new series of full-circle sprinklers for under-tree sprinkling needs is being introduced by National Rain Bird Sales & Engineering Corp., Azusa, Calif. Known as Model 14, the sprinklers are available with regular or low-angle nozzles and have an unusually low precipitation rate.

They may be ordered with regular or TNT bearings, the latter being recommended where there may be extreme wear due to abrasive water or sand. Sprinklers in the new model are said to average a higher throw and wider circle of coverage than the two models in series 14V and 14V-7 degs.



Bill Lyons Invents Machine for Planting Bent Stolons

Bill Lyons, supt. at Firestone CC, Akron, O., and operator of the Turfgrass Farms, 1843 Glenmount ave., also in Akron, has invented a machine for planting bent stolons. It is a disc planter with discs placed 1½ ins. apart across its 3-ft. width. Depth of planting is regulated by placing concrete blocks on a weight tray. Courses using the machine are said to be planting 5 to 8 bu. per 1,000 sq. ft. The machine, used for *Nimisia* thus far, will be tested on Bermuda and zoysia next year.

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