

GOOD GREENS AND TEES ALL SEASON

Experts all over the country are finding green and tee trouble stem from hard packing.

Bent roots must have oxygen and they can't get it thru a hard, fine packed top layer.

The answer is the use of a uniform coarse sand that is clean and free from hard packing fines. Spike tooth the green, clean, apply uniform coarse sand and drag.

We'll ship anywhere — bagged or bulk

NORTHERN GRAVEL COMPANY

407 East Front St.

Muscataine, Iowa

Suggests Keeping Record of T & E Expenses

(Continued from page 22)

done, and if it can be justified, it goes a long way in backing up your business claim percentage.

In separating business from personal use, remember that travel from your home to your place of business and return is considered personal. The percentage that you arrive at as your business use of the auto can be applied to all other expenses connected with your auto-insurance, gasoline, oil, repairs, grease, licenses, parking, storage, depreciation, etc. to arrive at your total auto business expenses. In figuring depreciation, be sure that you deduct salvage value from the cost of your auto. This figure is an estimate of what you judge the value of your auto will be after you have used the auto for the number of years that you've based your depreciation on. Factors effecting this estimate will be the number of years the auto will be depreciated, cost of the auto when new and total miles driven.

Keep in mind that the average taxpayer leaves an examining agent a poorer man either because he has inflated his estimates

of expenses or cannot prove what may be legitimate outlays. The whole burden is on you to prove that you did spend the sums claimed, and that they were usual and necessary in your business.

This article is not intended to make a "do it yourself" taxman out of you. Its main purposes is to enable you to cooperate more intelligently with your tax adviser by calling attention to the deductions that you can legitimately take and those to which you aren't entitled.

Golfing Poll Winners

Of the 213 golf writers who took part in Golfing's annual poll to pick the winners of the USGA Open, PGA Championship and National Amateur in 1961, only two came up with the right answers in as many as two instances. Wally Wallis of the Daily Oklahoman, Oklahoma City, selected Gene Littler for the Open and Jack Nicklaus for the Amateur, while Dana Mozley of the New York Daily News picked Jerry Barber to capture the PGA and Nicklaus to take the Amateur. A total of 167 writers didn't have to look very far into their crystal balls to come up with Nicklaus, incidentally.

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HEALTHIER
TURF!**



Have you tried
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SPREADER?**
... It's Fast,
Accurate,
Dependable!

Fertilizing with MILORGANITE reduces turf diseases which produce ugly brown spots. Disease control is more effective on MILORGANIZED turf. Nation-wide tests (names on request) prove conclusively that MILORGANITE is best for building healthier turf.

If you have a Turf Problem, write Turf Service Bureau,

THE SEWERAGE COMMISSION
Milwaukee 1, Wisconsin

- CURBS**
- DOLLAR SPOT
 - BROWN PATCH
 - SNOW MOLD
 - NEMATODES



**GOLF CLUBS
USE MORE**

MILORGANITE

**THAN ANY
OTHER FERTILIZER**

GCSA Education Program

(Continued from page 33)

will be discussed by a panel including Stratton H. Kerr, U. of Florida; Homer Wells, Tifton (Ga.) Coastal Plain station; and John A. Long, O. M. Scott & Sons;

Glenn W. Burton, Tifton Coastal Plain Station — Shade Problems in the South.

**February 1
(Morning)**

L. R. (Bob) Shields, supt. at Woodmont CC in Rockville, Md., will be the chairman of the meeting on "Progress Through Knowledge." His speakers will be:

William Bengeyfield, USGA green section — Another Look at Labor Management;

Norman Goetze, Oregon State College — Certification and Quality in Seeded Grass;

Ted Roberts, Jr., supt. DuPont CC, Wilmington, Del. — Safety in Maintenance;

Charles G. Wilson, Milwaukee Sewerage Commission — Practical Solutions to

Golf Car Traffic;

Warren Bidwell, supt., Olympia Fields (Ill.) CC — Clubhouse Relations;

Andrew A. Bertoni, supt., Meadowbrook CC, Northville, Mich. — \$64 Questions (a quiz program).

**February 2
(Morning)**

"Golf Course Irrigation" will be the theme of this session presided over by Dick Vieregger, supt. at The Olympic Club in San Francisco. His speakers will include:

Elmo Dowling, Rainy Sprinkler Sales — Water Supply Sources;

Water Distribution discussion panel will include Ralph E. Engel, Rutgers U.; H. M. Clark, Buckner Mfg. Co.; and David S. Mootte, Rosedale CC, Toronto.

A panel which will discuss "Semi-Automatic Systems" will include these supts.: William O. Ballentine, Orlando (Fla.) CC; Gene C. Reid, Randolph Muny, Tucson; Edward J. Casey, Baltusrol, Springfield, N.J.; Robert E. Grant, Runaway Brook CC, Bolton, Mass.; and Roy W. Nelson, Ravisloe CC, Homewood, Ill.

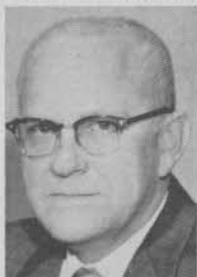


Billie Hartung (left), five-time winner of the Florida state women's championship and holder of several other ladies' titles, recently won a set of First Flight irons for scoring an ace on the 10th hole at Riviera CC, Coral Gables, Fla. She scored with a First Flight ball. Mrs. Hartung is seen with Jack Kelsey, First Flight salesman (center) and Buck Luce, Riviera pro. Luce did all right, by the way. He was paid a \$60 profit on the irons and received a set of First Flight woods, a bag and a dozen balls as his prize for having a member who scored an ace. Jack Harkins, First Flight pres., was pretty happy about this one since he is a founder of Riviera CC.

Cushman Becomes OMC Division; Cooper Is New Head

Cushman Motors, Lincoln, Neb., has reorganized its management team. Formerly

a subsidiary of Outboard Marine Corp., it is now a division. The change was brought about by the resignations of Robert H. and William M. Ammon, former pres. and vp, respectively. Head of the new division is Wayne L. Cooper, previously sec-treas. of the subsidiary. James W. Creighton has been named factory manager and Keith A. Pope, director of accounting. Creighton formerly was manager of OMC's Lawn-Boy plant and Pope was an OMC accounting supervisor.



Cooper

James Smith, Jr. Named Aero-Thatch President

James Smith, Jr. has been appointed pres. of Aero-Thatch Co., Rahway, N.J. He succeeds his father who becomes vp in charge of research and development. The younger Smith has been with Aero-Thatch since 1953, when it was started, in a sales capacity. He is a graduate of the Rutgers U. school of agriculture. The elder Smith founded Aero-Thatch when he was pres. of Fertl-Soil, Inc. and developed the widely acclaimed CHIA method of soil conditioning and control. The Aero-Thatch machine aerates, de-compacts, reduces thatch and cultivates in a single operation.



AUGUSTINE ASCENDING ELM

a new generation of elm, modern
as tomorrow . . . strong, vigorous, healthy!

IDEAL FOR GOLF COURSES!

Hundreds of Clubs Have Had Outstanding
Success When Planting for Specific Purposes:

- Traffic Control: to define fairways and encourage golfers to play in their own fairways
- Definition of greens
- Screening
- Beautification of the course
- Shade

The Augustine Ascending Elm is just 40 years old. It is a tetraploid mutation with 56 chromosomes, twice as many as the typical American elm. Both field experience and scientific inoculation tests have shown this healthy tree to have a marked resistance to the attacks of insects, fungi and viruses. We have received no proven evidence, in all this time, that any Augustine Ascending Elm has ever suffered or died from Dutch elm disease so you can plant and enjoy its unmatched beauty with confidence!

CONVENIENCE: a magnificent tree whose columnar shape tends to minimize the difficulties of making shots under or around it.
BEAUTY: majestic, vertical form is distinctively architectural. Large-leafed, rich green foliage provides ample shade, yet the tree's unique structure allows more sunlight to reach the grass more hours per day, thus promoting a thick lawn right to the trunk base.

ADAPTABILITY: narrow, upright shape and down-growing root structure permit close planting for windbreaks or enclosures. Perfectly suited for lining fairways and roads, and for setting off greens.

RAPID GROWTH: just 5 years from sapling to tree.

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January 29-February 2

we look forward to seeing you
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A COMPLETE LINE for EVERY TURF NEED or PROBLEM!

Florida Supt. Says Trucksters Are Easy on the Turf

Model 780 Cushman Trucksters, made by Cushman Motors, Lincoln, Neb., are being used extensively at LeJeune GC, Miami, Fla.,



according to Supt. Paul Turcotte. The Trucksters, according to Turcotte, are easy on fairways because the 4-ply traction-tread tires do not mark the turf even though they provide sufficient traction under wet and slippery conditions. The Cushman vehicle has an 11.1 sq. ft. body section, convenient for hauling mowers, hoses and other maintenance equipment. The Truckster is powered by a 9 hp die-cast aluminum engine that operates on an automotive type transmission. It gives approximately 40 miles to a gal.

Davis Fills in for Young in Cooper's Eastern Area

Cooper Manufacturing Co., Marshalltown, Ia., power mower manufacturer, has announced that the territory of W. Newton Young, longtime representative of the company, is being reduced because of his health. Arrangements have been made for Robert (Bob) Davis to take over part of Young's territory—Western Pa., New York and New England (except L. I., New York City and lower New York.) Davis, who works out of Middletown, N.J., has been associated for several years with distributors who handle Cooper's products.

American's Low Price Floor Mat

A low price floor mat with easily cleaned corrugated top surface, an extremely durable fabric insert and $\frac{1}{4}$ in. heel-proof perforations, is being produced by American Mat Corp., 1802 Adams St., Toledo 2, O. It comes in five colors, three thicknesses from $\frac{1}{4}$ to $\frac{1}{2}$ in., and is recommended for entrances, lobbies, ramps, etc. Details on this and other American Mat products can be obtained by writing to the company.

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Toro's Caddy Master Designed for Finger-Tip Guidance

Caddy Master, produced by Toro Mfg. Corp., Minneapolis, is battery operated and is said to travel 18 holes without a re-charge. Its four-



wheel trailing design keeps the weight of the machine to a minimum (79 lbs.) and this lightness makes possible finger-tip guidance. The Caddy Master breaks down readily to fit into a car trunk. It has 110-volt a.c. charger and timer clock, the 12 volt power supply is totally closed and the electric drive motor is completely sealed against dirt. Toro rents the carts to players through a pro shop setup.

Sod-Master's Powered Topdresser Covers 36-Inch Swath

Mete-R-Matic, a new powered topdresser, manufactured by Sod-Master, Minneapolis, Minn., is designed to topdress greens, etc.



mechanically. It has a gas engine and is guided by the operator by means of a front handle bar. Topdressing material moves from the 1/5 cu. yd. hopper on a treadmill to a large, rotating brush at the rear of the machine which drives the material downward in a 36-in. swath.

New Power for the Brushking

Rowco Mfg. Co., N.H., has equipped its Brushking Model 660, a portable brushcutter, with a Power Products modified model AH 47 engine. The high speed, two-cycle, aircooled engine develops three hp throughout the unit and, because of its two-stroke design, is easily maintained. Rowco also makes Trimkut power lawn trimmer, Rolling small-size power roller and Quik-Pik litter picker.



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Bogey Buggy Picked as Name Of New Nordeco Golf Car

Robert Masten, Boone, N.C., real estate broker, is the winner in the contest sponsored by Nordeco

(Northwest Development Corp.) to give a name to its one-man golf car. Masten selected "Bogey Buggy" for the new vehicle manufactured by the Kohler, Wis. firm and has been awarded one of the cars. Bogey Buggy is powered by a 4 hp gas engine and travels up to 9 mph over the roughest terrain. Its one piece molded fiberglass body and the muffler system are designed to keep motor and exhaust noises at a minimum. The car travels on low-pressure, 5-in. airplane type tires.



Masten

Nordeco is a new entry in the golf equipment field. It was founded by Conrad D.

Maintain turf easier...3 ways!

SOD-MASTER BANTAM SOD CUTTER

- Cuts up to 125 feet of sod per minute.

- Single control adjusts depth and angle of cut.

- Exclusive cutting action cuts all types of turf cleaner, faster, easier with less operator fatigue.



EDGE-R-RITE Power Edger



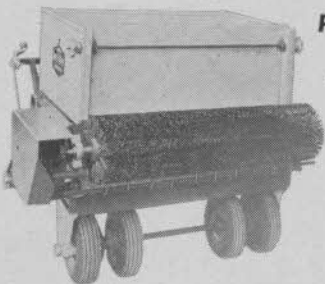
- All-new design edges sand traps, walks, driveways cleaner, faster, and safer.

- Single locking lever controls depth and angle of cut of oscillating vertical cutting blade.

- Positive traction drive.

METE-R-MATIC

Powered Top Dresser



Accurately spreads top dressing just as you want it. One man can now do the work of three, top dressing golf course greens and other fine cultured grasses. Just load the hopper, adjust the metering gate, and the METE-R-MATIC does all the work. Spreads high moisture top dressing as well as dry materials.

ON DISPLAY AT NATIONAL TURF CONFERENCE

SOD-MASTER

3456 No. Washington Avenue
Minneapolis 12, Minnesota

Kohler. One of its main aims is to provide engineering and production advice to people who have sound ideas but limited experience.

International Combination Used in Denver Course Construction

International's 460 Industrial tractor and Wagner Loader combination (photo) was used



in pulverizing topsoil for the greens at the new 27-hole Cherry Creek Park public course in Denver. More than 600 yds. of soil was fed into the pulverizer for the greens. The city also used another 460 yds. to complete the course and a recreation area at Cherry Creek reservoir.

Goodwin Markets New Sleeve-Type Grip

A new and expanded line of sleeve-type golf grips is being produced by Goodwin Mfg. & Development Co., Durham, N.C. Marketing of the grips is being handled by Goodwin Sales Div., Alderman-Ondo Corp., PO Box 1086, Warren, O. A new compound, X-70, is being introduced in the grip. It is said to improve hand feel, prevent slippage in any kind of weather and has strong resistance to abrasion and wear. The new line comes in several eye-appealing combinations. The Goodwin line is handled through established pro distributors.

Tri Powered's TeeBirdie Gives 18 Holes to Gallon

Par for the TeeBirdie, built by Tri Powered Corp., Austin, Tex., is said to be 18 holes to a gal. The car runs on a 7 hp air-cooled Kohler



engine and has several other noteworthy features including automatic transmission, power brakes, coil springs, welded steel frame and fiberglass body. The TeeBirdie has an oversize tank, capable of holding 2½ gals. of gas.

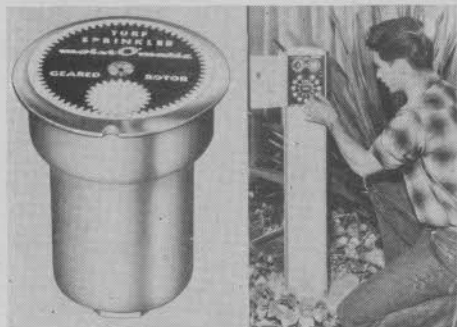
Chamberlin Kart Brochure

Extensive research is said to have led to the development of many new features in recent months in the Chamberlin Ko-lap-si Kart. These

and other construction features are described in a brochure that is newly released. To get it, simply drop a card to "Brochure," Chamberlin Metal Products Co., Frankfort, Mich.

Moist O'Matic Has New Heads for 11-Station Controller

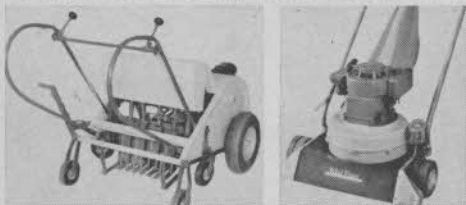
A new line of heavy duty, brass body, gear-driven rotary pop-up turf sprinkler heads, teamed with a compact 11-station automatic sprinkler



controller, is being produced by Moist O'Matic, Inc., Riverside, Calif. Both full and part circle heads are available. Each has exclusive three-nozzle design, finger tip part circle adjustment, extremely low pressure drop and a wide range of nozzle selections. Part and full circle heads give identical performance and are interchangeable. Operating pressure range is from 35 to 150 psi and radii from 45 ins. to 95 ft. Moist O'Matic's new Monitor, an 11-station controller, has a motor driven rotary selector valve with easily adjustable section knobs, giving control of the 0 to 60 minutes running time of each section.

New West Point Models

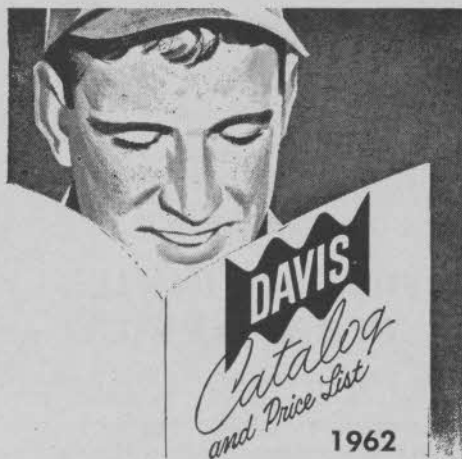
Important tools in West Point Products Corp's line are the 1962 Vertifier and Aeri-Vac. The former has hydraulic, lateral action for fast vertical coring on greens and other



Vertifier

Aeri-Vac

fine turf areas. Tines are adjustable for depth setting and front operation and turn-table action make it easy to turn the machine in its own path. The Aeri-Vac is recommended for removing Verticut material from greens. It is 26 in. wide, has a large capacity vacuum fan and its dual wheels prevent marking green surfaces. The West Point firm is located in West Point, Pa.



... it's easy to meet all of your golf course needs if you use the Davis Catalog for 1961

GRASS SEED • CHEMICALS • EQUIPMENT



No Gouges No Puddles



protect
greens and
tees with

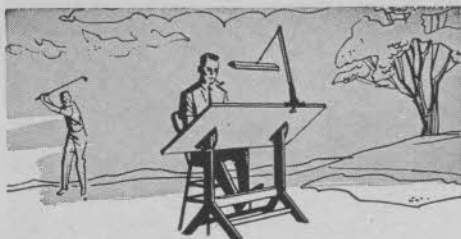
PUNCH-LOK HOSE CLAMPS

Punch-Lok Hose Clamps leave a smooth, absolutely leakproof connection. Easy to put on. Last the life of the hose. Write for literature and nearest distributor.

No Snag!
No Leak!

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FREE SPRINKLER PLAN SERVICE

Save time and money—with Thompson free sprinkler system plans. Includes layout, specifications, and equipment cost.

Fifty years' experience make Thompson the accepted leader. A complete line of precision-engineered equipment means lower installation costs, easier maintenance, savings in water.

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AUTOMATIC
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Golf Course Superintendents and Architects

- New -
Wheel-
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ONLY
\$59⁵⁰
36" Cast

Aluminum Wheel

Veeder Root Counter
Registers up to 99,999 ft.
Fast Reset to Zero.
Weighs only 6 lbs.
Tubular handle soft
rubber grip

Write for Folder

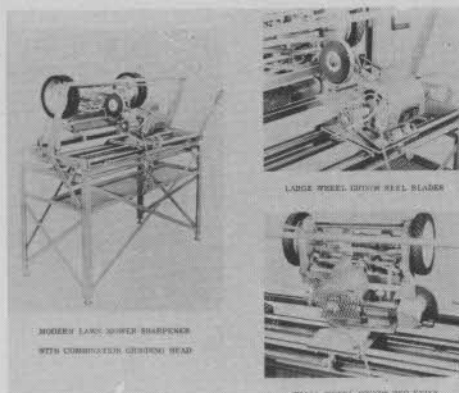


P. O. Box 231
No. Scituate, R. I.



Foley Sharpener Handles Fully Assembled Mowers

A sharpener that grinds both the reels and bed knife of any reel-type mower while the mower remains fully assembled and in



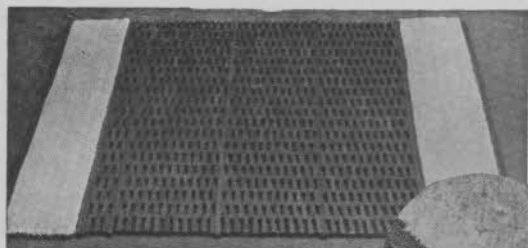
upright position is included in the expanded line of sharpeners now offered by Foley Mfg. Co., 3300 N.E. 5th St., Minneapolis 18, Minn. Built with institutional users in mind, the precision machine has a combination grinding head, $\frac{1}{2}$ hp electric motor with double end shaft, and 6-in. and $2\frac{1}{2}$ in. emery wheels to grind blades and bed knife. Mobility of grinding positions is a feature of the Foley unit. A patented elevator lift makes it possible for one man to handle the grinding detail. A low-cost attachment is available for grinding rotary blades on the same unit.

Pedersen Adds More Refinements

Pedersen Sales Co., Wilton, Conn., has added more refinements to its irons and increased



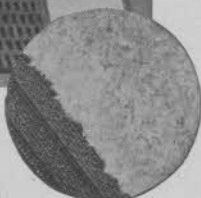
the face size of its woods for 1962. In construction of irons, the company points out that it has strived for precise relationship of shape, weight, balance and loft in all sets. There are four flexes for men and one for women, the same as with the wood clubs. The woods have formica face inserts, all are carefully



Quarter inch deep FLUFF insures safety for Iron and Wood shots.

KEEPS BALLS AND CLUBS CLEAN.
A link weave mat, reinforced with galvanized steel spring wire, provides durability in all kinds of weather.

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Magic Fluff* TEE MATS

STANDARD SIZES
MODEL A - 4' x 5' —
10" Driving Section - 70 lbs.
MODEL B - 4' x 5' —
10" Driving Section - 100 lbs.
Also custom orders
to your specifications.

H. M. WISE

212 Helen Ave., Manfield Ohio
Visit our Display at G.C.S.A.A.
Booth #120

swing-weight tested and careful attention is paid to sequence of loft. Sets of both woods and irons are available for lefthanders.

Parrett Outlines New Financing Program for Distributors

At the annual sales meeting of the Parrett Mfg. Co., Inc., Benton Harbor, Mich., held at Point of Woods CC, a new sales and customer



Parrett officials, distributors and Nassaus at sales meeting.

financing program for the Nassau golf car was extensively outlined for distributors. Persons attending the meeting also were briefed on the intricacies of preventive maintenance. Appliance Buyers Credit Corp., St. Joseph Mich., is handling Parrett's national finance purchase plan. In 1962, Parrett expects to concentrate on a national ad and sales promotion program.

MacGregor's Matching Threesome Is for Discriminating Golfer

MacGregor's matching threesome, in kangaroo, is described as a luxurious combination, made for the most discriminating golfer. The "Head-Fit" covers are kasha lined and have a matching leather thong and lurex welt. The "Sweep-Flare" bag has padded top and bottom cuffs, extra roomy clothing and ball pockets, a hide-away umbrella well and hardware is in nickel and brass with copper rivets. The 20-in. "Carry-All" is waterproof, has an end-to-end main compartment zipper, and extra zippered compartments for small articles. These items are sold separately or in units only in pro shops.



Buyers' Service—P. 111

Classified Ads—P. 109



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We furnish you all you need on rental share basis. No investment for you! We deliver and service carts regularly and keep them in good repair—FREE. Clubs not held responsible for damages, theft or breakage.

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See the latest and most complete line of golf driving range equipment and Pro Shop merchandising aids — at the

Annual Golf Merchandise Show

to be held in conjunction with the

1962 P.G.A. Seniors Championship

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February 13-19

WITTEK GOLF RANGE SUPPLY CO., Inc.

5128 W. North Av., Chicago 39, Ill.

Ask for our new,
1962 Golf Range
Equipment and
Supply Catalog!

Fox Karts Puts New Entry in Golf Car Field

Fox Karts, Inc., Box 797N, Janesville, Wis., producer of racing and fun karts, has introduced an economy golf car known as the Caddy Wagon. It has a one-piece fiberglass



body, contoured deep foam seat and a spring torque, aircraft style chassis. The Caddy Wagon rides on what is said to be newly developed, low pressure aircraft tires which produce strong traction but cause little pres-

sure to be applied to turf. The single seat vehicle will carry a 250-pound golfer up the steepest grades with ease, according to the manufacturer. The car has one-lever hand control and the flip-over tiller makes it easy to transport by station wagon. Dealer discounts are offered by Fox Karts to all pros.

Walking Measure Meter Eliminates Tedious Tape Handling

The Wheel-N-Measure, made and distributed by B. G. Reilly Co., PO Box 231, North Scituate, R.I., is said to be ideal for making long measurements such as often are required on golf courses. The device, which has a handle attached to a cast aluminum wheel, is walked by the person checking the measurement, and records up to 99,999 ft. Distance can be checked at any time on an attached counter and re-setting is a simple matter. Wheel-N-Measure weighs only 6 lbs. and operates as efficiently on rough as smooth terrain. It is widely used by surveyors, utility firms, etc. Complete information as to price and performance can be obtained from the Reilly firm.

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PGA OFFICIAL GOLF BAG TAGS
CLUB MEMBERSHIP TAGS

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PLASTIC 1/8 INCH THICK
HEAT EMBOSSED
WITH METALIC FOIL

CHOICE OF 7 COLORS **\$15.00** per **100**

Furnished with Heavy Plated "S" Hooks
BEAD CHAINS \$1.50 per 100 EXTRA
LEATHER STRAPS \$5.00 per 100 EXTRA

SPECIAL CLUB EMBLEMS
ON BACK TO ORDER

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PGA GOLF PROFESSIONAL
OLEN OAKS GOLF CLUB
CLEARWATER, FLORIDA



SEND FOR SAMPLES
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\$2.00 PER SET
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