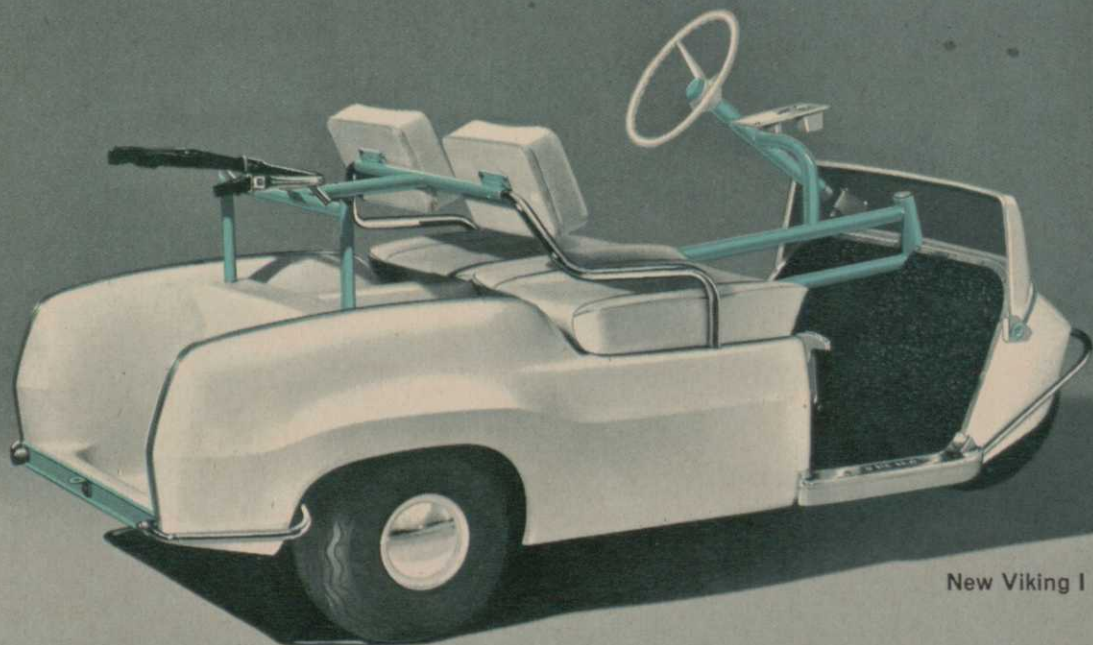




# VIKING

## ELECTRIC GOLF CARS

*Now, fewer moving parts,  
minimum payout for maintenance...  
plus a magnificent blend of safety,  
styling, simplicity of operation.*



New Viking I

**SAFER BY DESIGN.** The new Viking I is stronger, steadier, easier to control in every driving situation. Rear torsion stabilizing system, wide-track design and lower center of gravity reduce risk of tipping. Safety side rails, 4-speed switch control, safety reverse switch, all work together to make Viking I the safest-riding golf car made.

**SIMPLICITY OF OPERATION AND MAINTENANCE** with fewer moving parts, fewer things

to go wrong. Maintenance-free, double-strength Fiberglas sectional body; positive, automatic braking system; long-life nylon rear suspension bushings; single solenoid switch control; and easy accessibility to all moving parts.

**ELEGANT, FUNCTIONAL STYLING.** Longer, lower silhouette; soft, flowing, sculptured look—truly the most noticed golf car shape in years. *Send coupon today.*

*Send literature and prices on the Viking line of golf cars.*

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For more information circle number 227 on card



## QUICK WAY OUT OF TROUBLE—**AGRICO**

No matter what the problem is—drought, weeds, excess traffic—you can swing out of it in a hurry with famous formulas from AGRICO®, the **right** fertilizer.

AGRICO Golf Course Programs are specifically tailored to your own soil and climate—and include expert counsel whenever Mother Nature gets you into a trap.

**That's why 2 out of 3 Professional Turf Men prefer AGRICO Fertilizer and AGRICO Service to any other kind!**

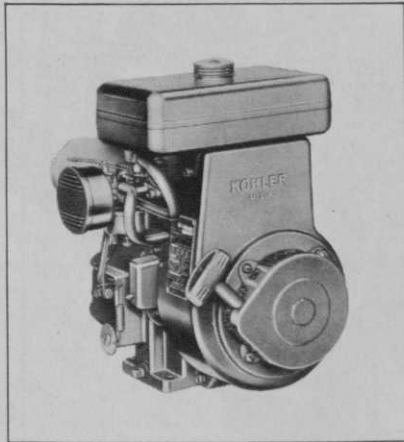
 **AGRICO® Country Club Fertilizers ...**  
at the roots of the best turf in America!

For more information circle number 243 on card

# New products



Carlson Company manufactures the Jif-Fly Field Marker. The marker has many uses on the course such as: out-of-bound markings, bounds for marking hazards and to mark areas during tournaments.



Kohler Company introduces its new 4-hp engine, model K101. This cast iron engine is the smallest in the Kohler line. Its standard features include: retractable starter; automatic compression release; precision, oil bathed, fly-weight type governor internally-mounted with external adjustment, and a silencer type muffler.

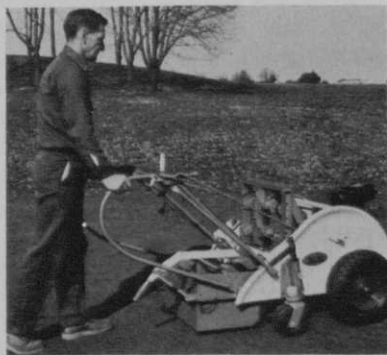


Motor Appliance Corporation introduced their new model 1555-T battery charger. It features three different lights that turn on in sequence throughout the charging operation to show how much the batteries have progressed.

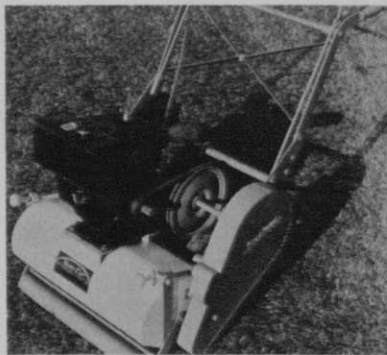
## Take time now to Save Time—Money—Manpower—this year

Call or Write your West Point Distributor  
He'll demonstrate the Proven West Point Way to

Better Playing Surfaces  
Less Interruption to Play  
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The MC5A Vertifier with Core Catcher for greens.



The VC-4A Verti-Cut® Mower Precision-built for grain-free greens and better putting surfaces immediately!



The PD-2 Power Drag for greens. One man mats one green in one third the time!

For the name of your West Point Distributor, write **West Point Products Corp., West Point, Pa. 19486**

## Shaft

Continued from page 45

as well as the control flex area.

"The old Kroydon Company of Maplewood, N.J., had developed machines to produce high-powered shafts that could be controlled to any diameter and wall thickness in any part of the shaft. Its shape of configuration was such that it insured a very stiff lower section with controlled flexibility further up the shaft.

"But where do we go from here?" he asks. "I'm convinced," says Mr. Schloss, "that the tip diameter of shafts is too small for steel, aluminum or stainless steel. I'm conducting research for a shaft to fit over the neck of irons, to taper down to a controlled flex point or precise fulcrum up the shaft, then to taper again to reach a butt diameter of not more than .600.

"With woods, I'd increase the diameter and taper of the tip section of the shaft up some 3¼ inches from the bottom, then have a taper to a controlled flex point or fulcrum and finally graduate up to the same .600 or .580 diameter at the butt end.

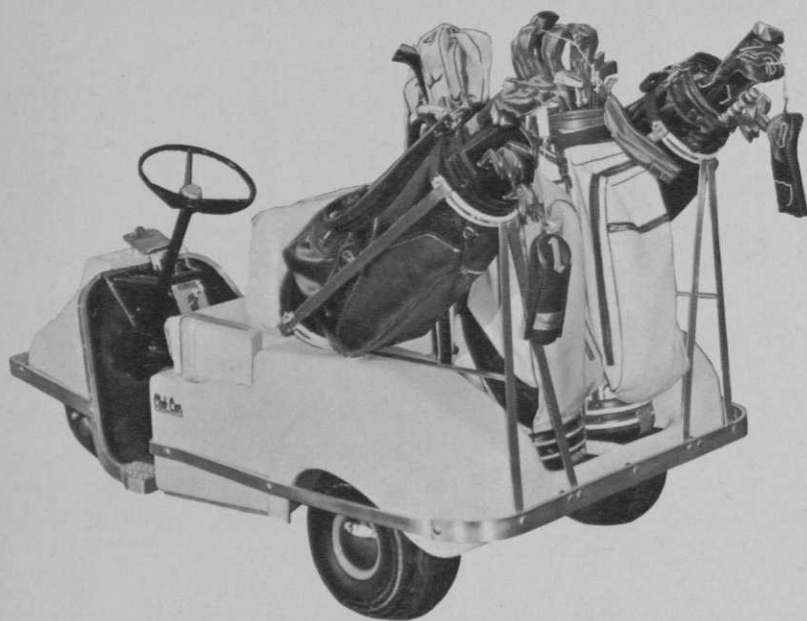
"I say the lighter the weight of the shaft, the better the balance. But aluminum is not the answer. It does not return the club to its original position as fast and it doesn't oscillate. It feels dead. Certainly, stainless steel can be considered the lifetime shaft."

John St. Clair agrees that "a lighter overall weight to the shaft will increase the velocity of the clubhead and generate more energy (distance), eliminating the need to change your timing." However, he feels that "this could be the aluminum shaft. You can't have help in the clubhead without control. A softer shaft that provides more distance only if your timing is perfect is not the answer. The correct shaft will have all compensating factors built right in."

But whether your shaft is aluminum, steel, glass or stainless steel, if it doesn't get the clubhead to the ball the exact instant your hands are in hitting position, then it is not the one for you.

Irv Schloss was then asked what else is new in shaft development. "Most of the research and de-

Continued on page 76



# MONEY BAGS

## New 4-bagger — Money-Maker

It's as simple as this: if you've been renting a 2-bag car for \$7, you can almost double your rental income by getting \$12 for our new 4-bagger. And each golfer pays less!

## Double your fleet capacity?

Yes. And with less cars. You go through those peaks of demand — for tournaments, corporate outings and other special occasions. You probably have to beg, borrow or rent additional cars. Our new 4-bagger will accommodate twice as many golfers, double your fleet capacity. No more begging.

## Most golfers want exercise, too!

For the first time, a foursome or threesome can rent one car. Most golfers want exercise, without

fatigue. With our 4-bagger, each member of a foursome can walk 9, ride 9. Each golfer in a threesome is able to ride 12 holes.

## Advantages of the 4-bagger

- Doubles your income potential with less initial investment
- Doubles fleet capacity for those periods of peak usage
- Eliminates caddy problem
- Reduces cost-per-rider on rentals
- Expands market to threesomes and foursomes
- Satisfies golfer's need to exercise, without fatigue

## Pay yourself with a demonstration.

The name of the game is profit and our new 4-bagger doubles your potential. Call or write us today for a demonstration. That's free.

## Club Car

CLUB CAR DIVISION — Stevens Appliance Truck Co. Box 897, Augusta, Georgia  
 Send technical bulletins: "Care and Feeding of Golf Car Batteries," etc.  
 We'd like a CLUB CAR demonstration

NAME \_\_\_\_\_

CLUB \_\_\_\_\_

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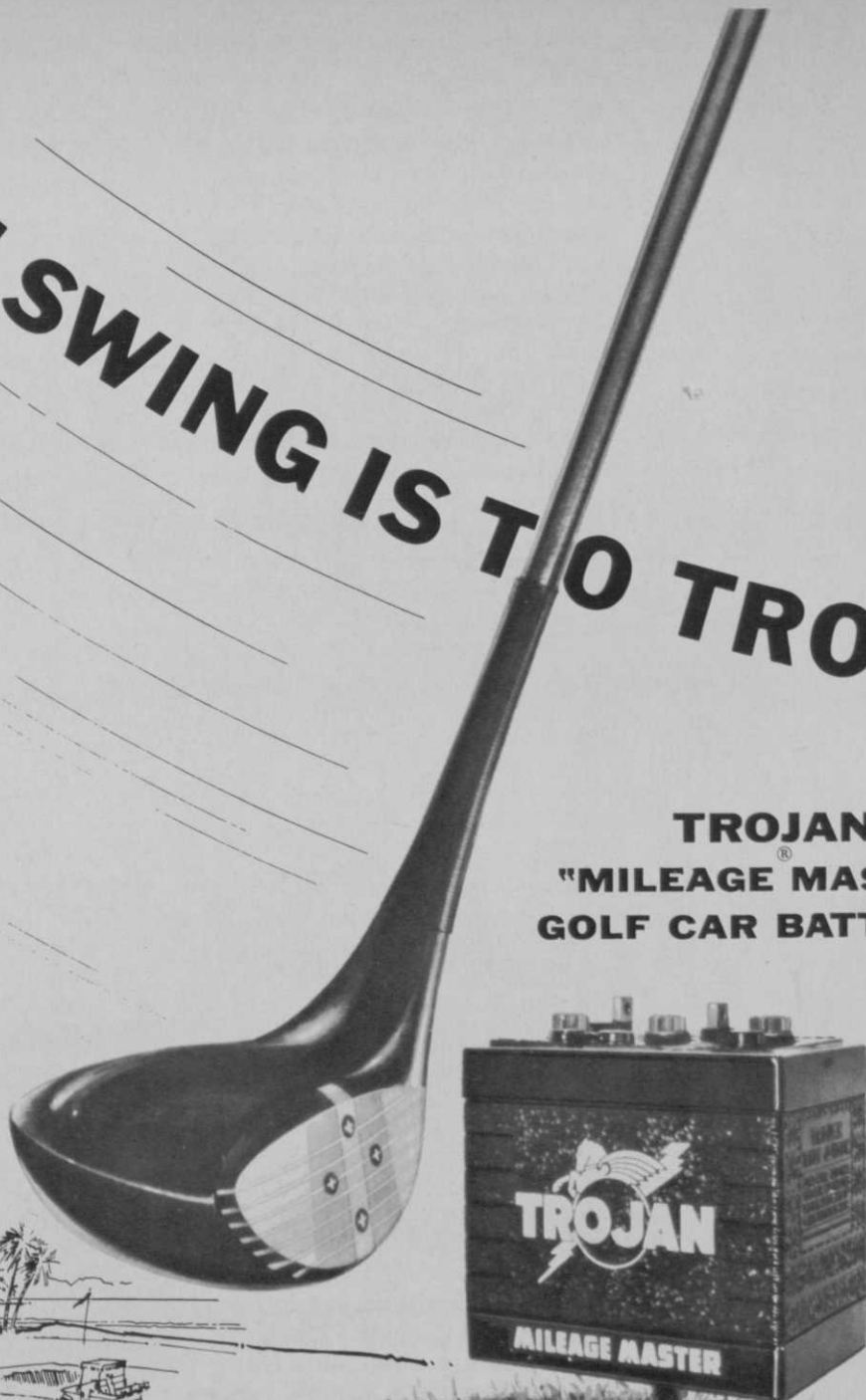
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Limited Number of Distributorships Available. Write for Details

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**"MILEAGE MASTER"**  
**GOLF CAR BATTERIES**



More driving power . . .

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is why more and more of the country's leading golf courses prefer  
Trojan Mileage Master Electric golf cart batteries.

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For more information circle number 221 on card

## LUCKY BUCK

### SOLID GOLF BALLS

#### FULL REGULATION SIZE

\$3.60 per dozen wholesale

Solid Range Balls \$2.85 per dozen to ranges.

Plastic Golf Tees \$2.10 per thousand in 50,000 lots.

### BUCK MFG. CO.

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For more information circle number 198 on card

Nothing 'cut' with this  
**COUPON** except grass  
the way it should be!

Send it  
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Read why Manco-  
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Easier...  
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Send me **FREE** Literature  
on **Manco-Locke** Highwheel Mowers

... and also on Locke reel and rotary mowers.  
I'd like the name of closest dealer too.

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South Charleston, W. Va.

For more information circle number 215 on card

**NEED TABLES?  
SAVE MONEY!**



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Chairs.

ORDER DIRECT FROM  
**FREE  
MONROE  
CATALOG**

Why pay fancy prices for folding tables? Order  
DIRECT from MONROE! Almost 100,000 customers  
save time, trouble and MONEY by buying tables this  
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OVER 40 YEARS  
EXPERIENCE IN  
Automatic Golf Tees  
WRITE: Dept. GF  
**PAR-TEE, INC.**  
4373 N. Elston Ave.  
Chicago, Ill. 60641

For more information circle number 158 on card

## shaft

Continued from page 74

velopment into shafts took place before World War II. Since then, approximately 90 per cent of all shafts have followed the pattern introduced by True Temper in 1932.

"The True Temper Vickery pattern followed the 2/3-1/3 theory, as did the old Bell Bottom shaft, but the latter never really became popular because of too much flex in the upper section. The Heddon Tear Drop shaft was also used and is still well thought of.

"In 1964, True Temper made steel shafts at four ounces which still retained the firmness necessary for strong players. The shafts in the wood clubs were made in two-step configurations and in one-step for the irons. One large manufacturer and several makers of custom-built clubs used them constantly.

"But not enough research and development in other configuration changes is taking place. This is because a near-monopoly still exists: there is a minimum number of shaft manufacturers and consequently little or no competition."

In any case, Mr. St. Clair agrees with Mr. Schloss about the importance of giving the manufacturer as much information as possible. "I would like to see the home professional furnish us with specifics when ordering custom-built clubs for his members. Using the technical data booklet Spalding gives to each pro, he should ask for grip size, shaft length, lie and loft in numbers." (The standard club specifications are obtainable from manufacturers).

He also summed it up quite well. "If you have talent, you could probably do all right even with wrong clubs, just as you can learn to wear shoes that are too large. But if you have golfing talent together with the right clubs, you'll break through to much better success." □



**Work Wonders  
the UNITED way**

## TIME SAVER-PROFIT MAKER

THE NOWLEN

## GOLF BALL RACK



Hangs on wall or stands on counter

Attractive, orderly display attracts customers—speeds ball selection and sales

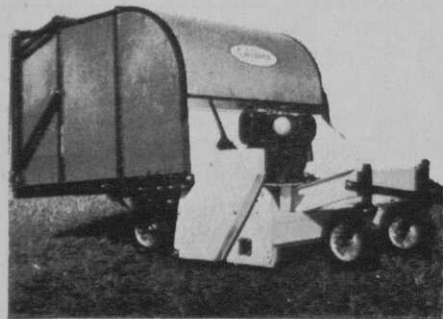
- 1 Holds 195 packs of 3 or 4 balls
- 2 Size—32" Wide, 8" Deep, 22 1/2" High
- 3 Beautiful Walnut Finish
- 4 Bottom pack pulls out without disturbing pack above

PRICE \$59

### PLYWOOD INN

810 Highland Ave.  
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For more information circle number 261 on card



### TURF SWEEPER

Model 720E Sweeper  
ROGERS SWEEPERS vary from small self propelled to large 5 cu. yard capacity tractor drawn units.

● Gathers - wet or dry - grass clippings, leaves, rocks, bottles, papers, dead branches, cans and other unsightly debris.

### POWER AERATORS

- Designed to aerate deep and clean under any ground conditions.
- Relieves compaction
- Renovates and removes Thatch
- Prepares Seedbed
- Smooths rough areas
- Drains low areas

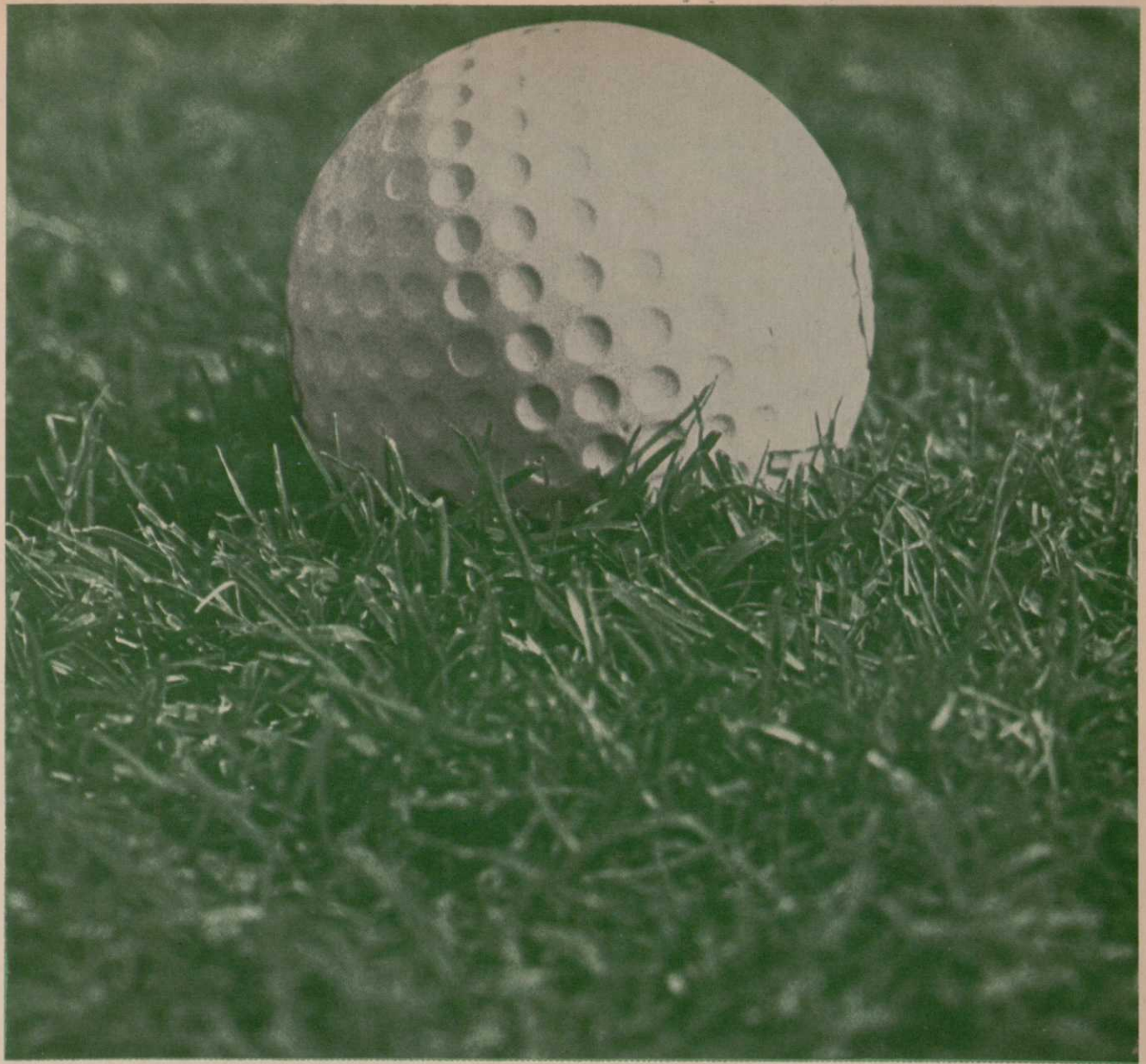
### REDUCE MAINTENANCE COSTS

● All are "One Man Operated".

## Rogers Mfg. Co., Inc.

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913 - 764-1615

For more information circle number 210 on card



## A durable green fairway is par for the course

with Armour Vertagreen Tournament Fertilizers.

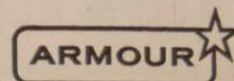


Expect a dense green fairway when you nourish your turf with Armour's Tournament—a fertilizer formulated especially for fairway turf.

Vertagreen Tournament's richer balance of root-growing nutrients feeds grass roots more of what they need to grow long and strong . . . roots which nourish a thick, green, healthy turf . . . roots that help your turf green-up faster in the spring and stand up under heavy play.

Look to Armour's *Professional Turf Program* to keep your whole course in championship condition. Armour has a complete line of fertilizers and turf protection products—all backed by reliable Armour research and the services of your experienced Armour representative.

Armour Agricultural Chemical Company



For more information circle number 188 on card

# SOLEXTO



**Grub-  
proofs  
Turf  
for  
10  
YEARS**

**ONE APPLICATION of SOLEXTO**, two gallons to the acre (1-to-200 solution), grub-proofs the turf for at least ten years. Moles, too, are kept out by elimination of their food.

**WHOLE SEASON CONTROL WITH ONE SPRAYING:**

Solexto diluted 1 to 400 and sprayed on two to four acres gives season-long control of beetles, ants, crickets, chinchbugs, cut worms, rose chafers, chiggers, fleas, ticks, mosquitoes and many other pests.

**ECONOMICAL COVERAGE:**

Because such high dilutions are possible, extensive coverage is very economical. Labor can also be saved by using E.W.T. Selective Weed Killer in the same solution for general spraying of turf.

Write to the C. B. Dolge Company, Westport, Connecticut for information about other insecticides; also inquire about weed killers, golf ball cleaner, mole and gopher killer.

*Dependable*  
**DOLGE**

For more information circle number 191 on card

## Graffis

*Continued from page 69*

Mass. died recently in a nursing home . . . Ted was in his 60s . . . He is survived by a son and two sisters . . . Swanson retired several years ago because of poor health, eye trouble and nerves . . . You'd be surprised to know how many top superintendents suffer from ulcers and other nerve-tearing afflictions . . . They've got jobs of nerve strain from nature and golfers.

Course near Flagstaff, Ariz., originally known as Northernaire CC, then Oakwood CC, taken over by new company headed by E.L. Robson of Phoenix and will have course modernized and put into top condition by Art Snyder, Jr. . . . Homesites and winter sports also in Pinewood plans . . . Gaylor Currie, on Jules Platte's pro staff at Paradise Valley CC in winter will be Pinewood pro in summer . . . Harold Thomas, pro at Greenville (N.C.) G&CC for 22 years resigned and bought Brook Valley CC at Greenville . . . He will operate Brook Valley and serve as its pro . . . Thomas C. Unger is now manager, Westwood CC, New Castle, Ind.

National chain of golf courses headed by Honolulu attorney William W. Saunders, and with Alexander C. Waterhouse as senior vice president, now are principal owners and operators of nine golf clubs on the mainland . . . Sonoma (Calif.) National was bought by Saunders' father, Dr. Cecil A. Saunders, a former Honolulu physician . . . Saunders family owned interests in the Colwood National and Meriwether National courses at Portland, Ore., which with Sonoma, were elements of the national golf management organized and formed in 1956.

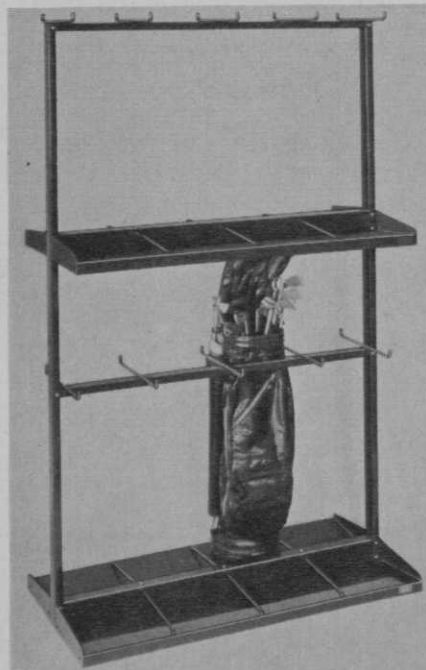
Charlestown (W.Va.) councilman William E. Mohler, in proposing that Edgewood CC nine-hole private course become public pointed out that financing of the purchase of Edgewood, which would be too expensive for the city, actually would be no problem as there are "about seven different agencies in Washington that provide funds for public recreation grants." Come and get it . . . Danny Williams, Jr., now a pro at Mendham (N.J.) G&TC

*Continued on page 96*

## INCREASE EARNINGS, SERVICE & SPACE

Remodel your present storage space, bring your bag racks up to date

**WITH NEW Stafford  
VERTICAL BAG RACKS**



U.S. & CANADIAN PATENTS

Your members will like the extra convenience and care. Your pro shop profits from 40% more space these racks make available.

Double unit shown holds 16 bags, size 2' x 4' x 6'-3" high, gives 12" x 12" space for bags. Single unit holds 8, size 1' x 4' x 6'-3" high. Sturdy steel. Bags set solid on tapered shelves.

- Wear and tear of golf bags is completely eliminated
- Damp bags dry faster — no mildew
- Provides a neat appearance
- Faster, easier storage
- Easy to install and add more as needed —

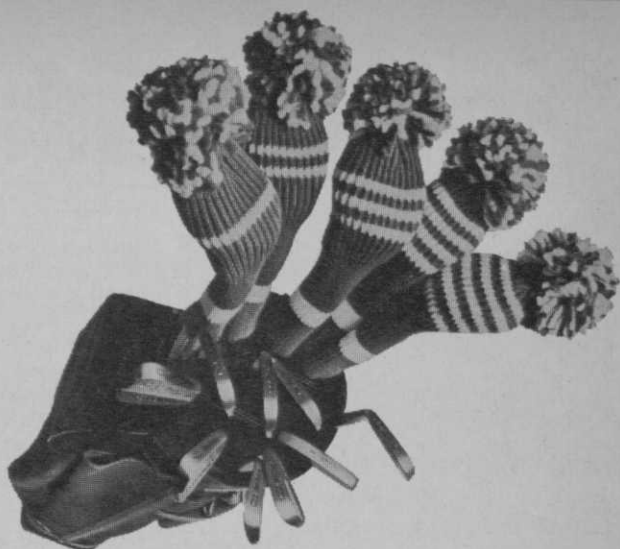
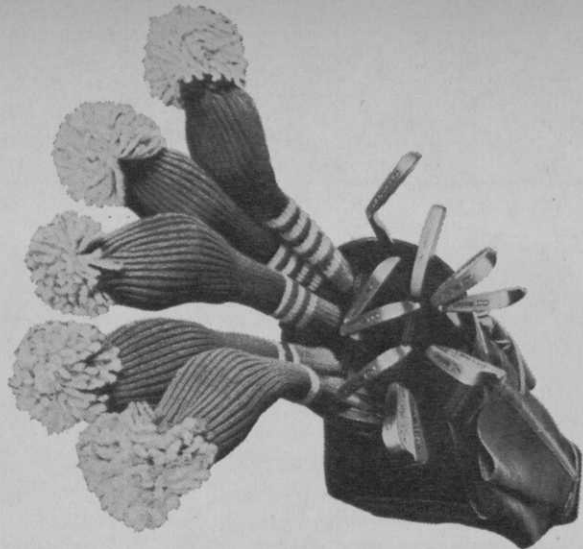
Send us your floor measurements, we will plan a layout and quote you — no obligation.

**THE A. G. STAFFORD CO.**

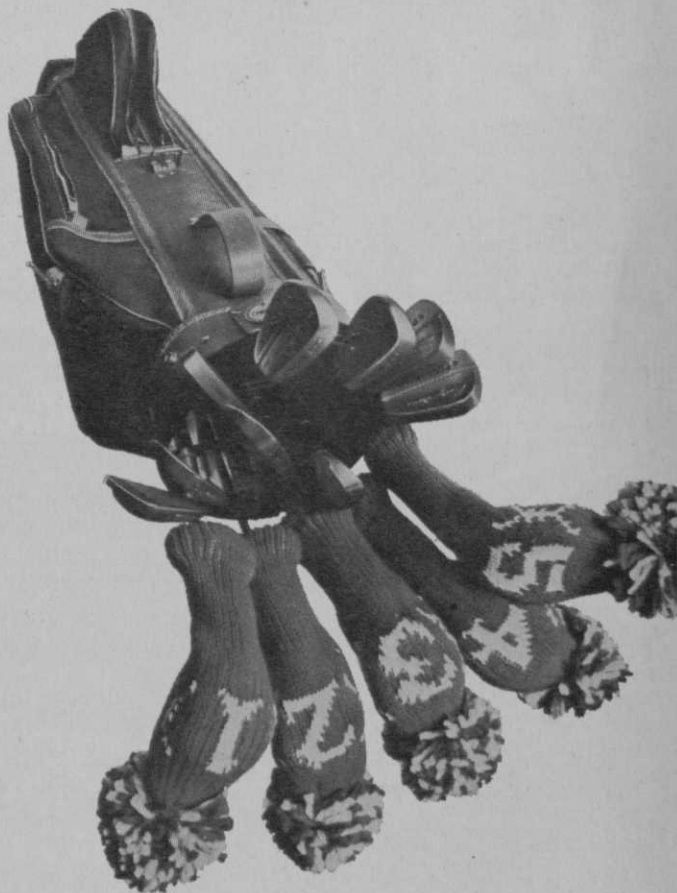
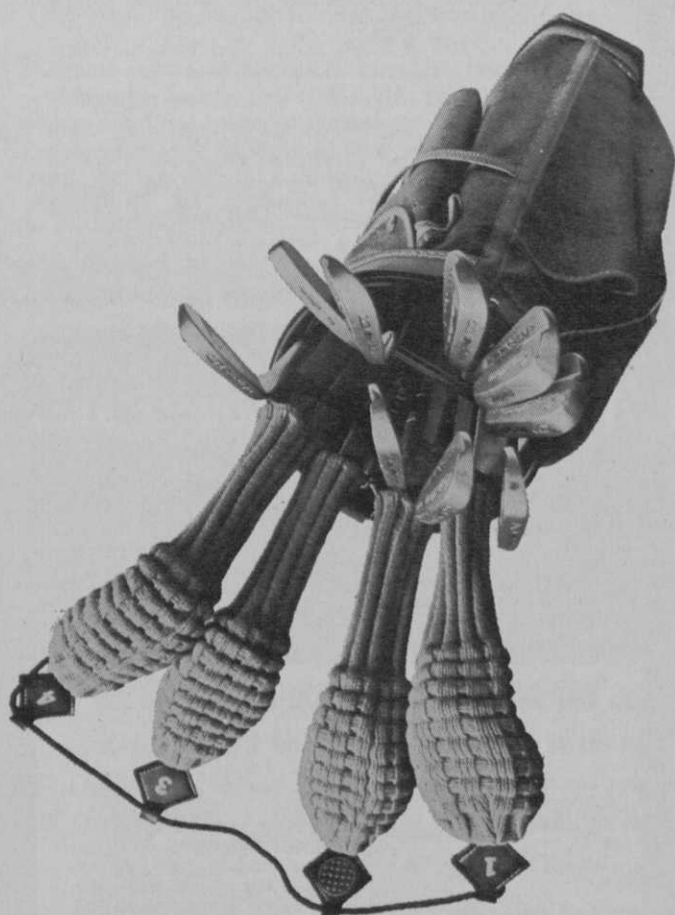
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## Meet the swinging new sales-makers from Reliable of Milwaukee!



Fully Washable  
**Knit Club Sox**  
of 100% Creslan acrylic fiber

The golf wood protectors with sales personality. Come-on-strong color. A springy, long-lasting fit. Plus the positive washability customers insist on. Club Sox have the style a golfer goes for. The selling action a pro-shop can rely on—from Reliable. Creslan acrylic is a product of American Cyanamid Company, New York, N.Y.

**Creslan**<sup>®</sup>  
LUXURY ACRYLIC FIBER

For new Pro-Shop Catalog of knit golf accessories by Reliable, write Reliable of Milwaukee, Box 1367, Milwaukee, Wisconsin 53201.

For more information circle number 230 on card

# People in the news



Harris

Lloyd Harris has been advanced to a sales engineer in the industrial machinery area for Armco Steel Corporation, National Supply Division.



Otte

A.J. Otte was promoted to a sales engineer also, in the industrial machinery area for Armco Steel Corporation, National Supply Division.



Freiheit

Fred E. Freiheit was named chief engineer for agricultural products at the John Bean Eastern Division of FMC Corporation.



Moore

James B. Moore is the new general marketing manager for Certain-teed Products Corp., Pipe Div. He will specialize in planning and programming.



Fleming-Brown

D. H. Fleming-Brown has been appointed a technical director for Ransomes Sims & Jefferies Ltd., and will join the executive board shortly.



Grill

James T. Grill has joined Sprinkler Irrigation Supply Company as district sales manager for northern Ohio and Indiana.

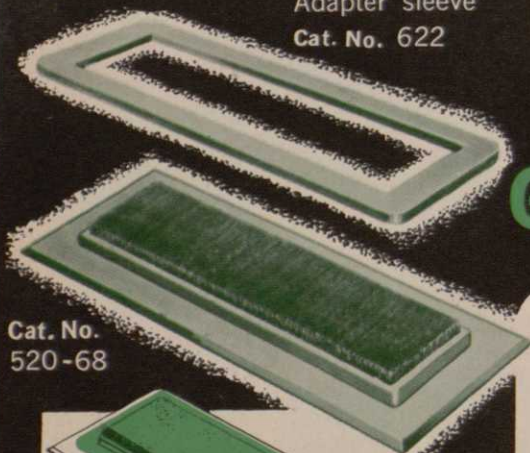
Joe Wampler was recently promoted to general manager of Aqua-Dial, manufacturers of turf irrigation equipment. He has been with the company since 1955.

Daniel J. Frese has been promoted to director of national accounts and trade relations for the industrial chemicals division of Mallinckrodt Chemical Works.

Albie Pearson, former outfielder for the California Angels, has been named general manager of the Hesperia Golf and Country Club. He will be directing all activities at this (Calif.) club.

## TESTED BY 100,000 HITS...and still going strong!

Rubber  
Adapter sleeve  
Cat. No. 622



Cat. No.  
520-68

Rubber  
Adapter Sleeve  
in position for  
6½" x 22" mat opening

**Flexi-Mat's® ALL NEW RUBBER BASE  
(NO METAL)**

**TURF KING GREEN  
(T.M.)  
GOLF PRACTICE BRUSH MAT**

WITH FLEXI-POLYPROPYLENE PLUS-GRASS—The closest thing to REAL TURF!

**The ideal Golf BRUSH MAT for OUTDOOR and INDOOR use,  
can be used WITH or WITHOUT ANY GOLF RANGE MATS**

- The new TURF KING (T.M.) Green BRUSH MAT is made of FLEXI-POLYPROPYLENE plus-GRASS completely weatherproof for OUTDOOR or INDOOR USE.
- Will not rot, expand, or contract with weather changes.
- The new all rubber vacuum cushion base (Pat. Pend.) prevents BRUSH MAT from slipping while in play.
- WILL STAY PUT ON ANY SURFACE OR FLOORING.
- Completely free of metal, wood, wire, or any other abrasive material and will not scratch, mar, or damage expensive GYM FLOORING.
- THE IDEAL BRUSH MAT FOR SCHOOLS AND COLLEGES.
- GUARANTEED not to mar or damage any expensive GOLF CLUBS.
- The 2" flange around the TURF KING (T.M.) Green BRUSH MAT prevents brush from slipping or moving while in play and PROLONGS THE LIFE OF THE GREEN BRUSH MAT.
- THE MOST DURABLE AND THE MOST ECONOMICAL GREEN BRUSH MAT THAT HAS YET BEEN PRODUCED!
- Size: 5" x 20" (to fit 5" x 20" mat opening). Also fits 6½" x 22" mat opening when used with rubber adapter sleeve.

**Flexi-Mat Corporation** 1440 WEST 21st PLACE • CHICAGO, ILLINOIS 60608

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