



For the  
**RIGHT  
APPROACH**

to your problem of large or small brownpatch the choice of a fungicide is as important as the Champion's selection of the correct iron for that all important approach shot.

Calo-Clor\* is the "just right" remedy when quick acting turf disease strikes your fairways and greens. Don't underestimate the job to be done—choose the perfect weapon to protect your course. Excellent, also, as a preventive against the disease.

*Calo-Clor Regular for dry application.*

*Calo-Clor Suspension for use in sprayers.*

Either of these fine products are available at your Golf Club Supply house or the nearest MCW office. Above all—specify *Mallinckrodt*. Write for additional information.

\*Calogreen for small brownpatch.

\*T. M. Reg. U. S. Pat. Off.

**MALLINCKRODT**

*80 Years of Service*

Mallinckrodt St., St. Louis 7, Mo.

CHICAGO • PHILADELPHIA



**CHEMICAL WORKS**

*to Chemical Users*

72 Gold St., New York 8, N. Y.

LOS ANGELES • MONTREAL

UNIFORM • DEPENDABLE • PURITY

**SPRAYING COSTS**  
*take a dive!*  
 with  
**WEEDONE**  
Reg. U. S. Pat. Off.  
**2.4D PRODUCTS**

**Weedone Concentrate 48**—the concentrated ethyl ester formulation of the original 2.4D weedkiller. Contains 3 lbs. of 2.4D acid per gallon. A powerful herbicide for the hard-to-kill weeds. Goes to work instantly—not washed off by rain.

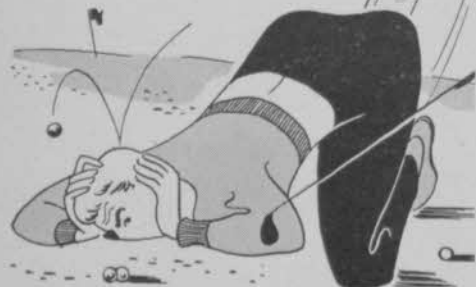
**Weedar 64**—the alkanolamine salt of 2.4D. Proved more effective than the sodium salt. 4 lbs. of 2.4D acid equivalent. For rock-bottom spraying of the easy-to-kill weeds. Not volatile—safe to spray near susceptible plants.

These concentrates are formulated for—

- **Low-volume spraying—5 to 20 gallons per acre.**
- **Small quantities of 2.4D—2 to 4 pints per acre.**
- **Amazingly low price.**

Strengths can be adjusted for effective control of weeds without killing useful grasses and clover. Crabgrass, too, is definitely controlled by early spring spraying. For further information ask your dealer or write to American Chemical Paint Co., Ambler, Pa.

**FREE** Ask for our Golf Bulletin. Full details of latest findings on 2.4D in fairway and rough.



year. . . Pros were smarter than they used to be in not making long allowances on the trade ins. . . Wm. Schoppe new supt., Raritan Valley CC, Somerville, N.J. . . . Charles Storer, new supt., The Country Club, Brookline, Mass.

Howard (Pop) Beckett, pro, Capital City Club, Atlanta, Ga., has booked the No. 1 women's golf match of the year for his club March 14. . . Louise Suggs and Dorothy Kirby will play against Mrs. Mildred Zaharias and Patty Berg. . . It's for a local charity. . . The Babe and Patty are playing free. . . Horton Smith hires Eddie Kirk as an asst. at Detroit (Mich.) GC. . . Eddie was pro at Glen Oakes CC (Detroit dist.) before four years in the Army. . . Charley Kelly will be in the DCC shop for his 26th year. . . Bob Reith also will be on the staff again. . . Horton recently was operated on for a torn cartilage in the knee which kept him out of play last summer.

Mike Behrendt, supt., Wilson Sporting Goods Co. golf factory, recently was honored at a party celebrating his 25th anniversary with the company. . . Pair of

**ATTENTION  
 GREENKEEPERS!**

At last—a 100% soluble liquid fertilizer that will help you keep those greens and fairways in better shape, with less work, the year around.

Yes sir, "Na-Churs" Liquid Fertilizer is based on a recommended formula as developed by The Ohio State University, and it contains the proper nutrients necessary for producing and maintaining greener, thicker, healthier turf.

"Na-Churs" is easy to apply; saves time, money and labor, and can be applied with your present equipment. Leading golf courses, the country over, are using this proven liquid fertilizer. Write Dept. E today for full information and introductory offer.

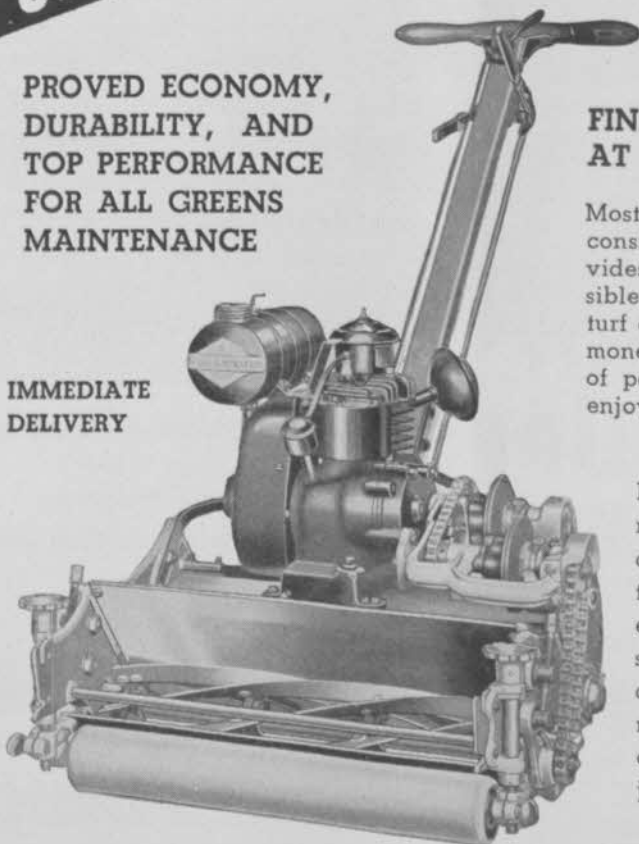
**"NA-CHURS" PLANT FOOD  
 COMPANY Marion, Ohio**

*Cooper*  
**"CHAMPION"**

# POWER GREENS MOWER

**PROVED ECONOMY,  
DURABILITY, AND  
TOP PERFORMANCE  
FOR ALL GREENS  
MAINTENANCE**

**IMMEDIATE  
DELIVERY**



**FINER GREENS  
AT LOWER COST**

Mostly of aluminum material construction, which provides lightest weight possible. Smooth, evenly cut turf can be proved and the money saving advantages of power mowing may be enjoyed.

New type clutch and reel adjustment. Close coupled grass box and transport cart as regular equipment. Aluminum sectional rear roller with differential action. Aluminum front roller and convenient height adjustment.

Through scientific engineering design, the safe elimination of all dead-weight has been accomplished in the COOPER "Champion" greens mower, without sacrificing necessary strength and durability.

Being light in weight, the "Champion" will not pack greens. New clutch design, with soft starting torque, engages without grabbing, eliminating scuffed or marred turf. Specially constructed high speed reel, insures smooth-cut turf with no corrugations. Short wheel base and short coupled construction of front roller and cutting knife, prevent scalping, especially on terraced or uneven contours. **WRITE TODAY FOR LITERATURE AND COMPLETE INFORMATION.**

**COOPER MANUFACTURING COMPANY**

409-411 South First Avenue

Marshalltown, Iowa



## 1008 BALLS RETRIEVED IN 8½ MINUTES!

This amazing machine means  
real profit to every  
Driving Range

Ask any owner  
about the 1948

# PICKER-UPPER

They will tell you about savings that you would not have thought possible . . . savings in time, labor, worry and ball investment that will immediately and substantially increase your operating profits.

Cleaning a swath 9 ft. wide at a speed of 8 miles an hour the Picker-Upper gathers up golf balls with effortless efficiency . . . it gets 'em all and deposits them in a hopper ready for speedy replacement at the tees.

The Picker-Upper quickly pays for itself for its savings begin the moment it goes into operation.

It brings quick relief to high labor costs and worries . . . to back-fence theft . . . to needlessly high ball investment and deterioration.

Lotus golf shoes was given as a wedding present to the Duke of Edinburgh. . . Dorothy Traung, runner-up in Women's 1934 National and five-times Women's Northern California champion, badly injured in automobile accident at San Francisco.

Pres. Aleman of Mexico is the top golfer of national chieftes today. . . Aleman was warmed into golf enthusiasm by Mexico's Sec. of Finance, Lic. Ramon Beteta who is one of the sister republic's star amateurs. . . Beteta also got members of Aleman's cabinet interested in the game. . . With adminis-

1. Aluminum discs. Steel tires for wear. Rubber sides for gentle ball handling.

2. Steel top for longer wear. Steel boxes with rubber bottom mat.

3. Auxiliary wheels are Timken bearing equipped, requiring no lubrication.

4. Machine flexes to fit the contour of the ground.

## FONKE

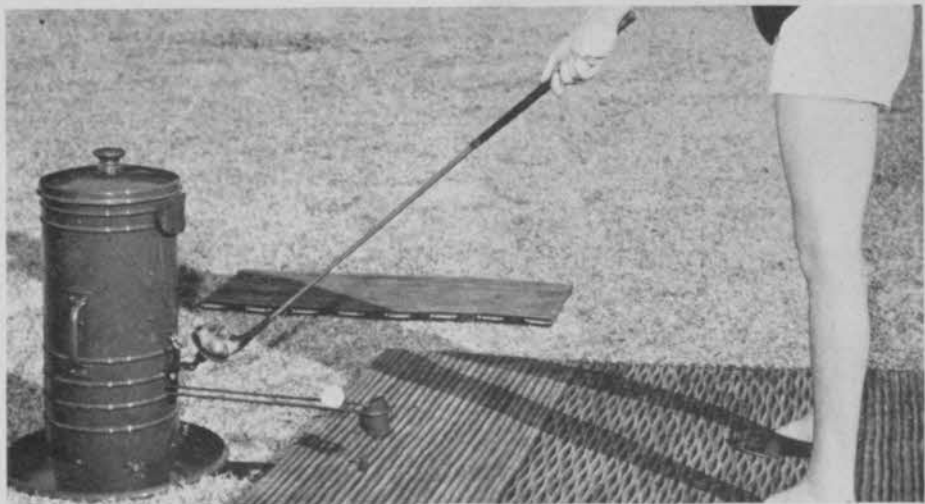
tration interest strong there is possibility of new course and golf range construction at Mexico City.

Ralph Lang opening his 9-hole Blue Ridge 2,915 yd. grass green course at Charlottesville, Va., April 1. . . Ralph was pro at Roaring Gap (N.C.) CC. . . Dr. Millard Rosenblatt, new pres., Oregon GA, has named Harvey Benson, former pres., Alderwood CC, Portland, as chmn., inter-club relations committee to stir up interest in statewide amateur competition.

John Latham, San Francisco, elected pres., California State GA. . . Harold Dawson, one of the widely known Dawson

Golfdom

# The Picker-Upper Family



## Amazing New Member of the Family — The Tee-er-Upper

A new semi-automatic tee, built of aluminum and rust proof steel. Strong and serviceable. Will speed play on your range. Cuts ball theft. Never misses. Answer to a Pro's prayers. No more stooping. Works easy.

Light and easily movable. Reasonably priced.

Full line of Rubber Tees and Mats. Mats built to your specifications. Reduced prices. India Rubber Tees that defy wear.



## This is the new TRIMMER-UPPER

Greenkeepers will recognize the Trimmer-Upper as the long awaited answer to their trap trimming problem. Mower reel is horizontally hinged to follow contour of the lip of sand trap. Light, strong, durable, versatile, for ease, speed and economy in angle edge trimming.

For information on the complete Fonken line write:

**Manufacturing Co.** 308 East Grinnell Drive  
BURBANK, CALIF.

brothers, appointed field sec., Southern California GA. . . Big amateur tournament scheduled for Guadalajara (Jal., Mex.) CC . . . That makes a grand time for a trip to Mexico. . . If you want to know about the event write Charles S. Smith, pro, at the club.

Albert Jones, pro at Atlanta (Ga.) North Fulton munny course hadn't played a round in 5 years. . . Been too busy teaching and getting the course in fine shape. . . Last time he played he had 33 on the back 9. . . Convict labor is used on the course. . . Main Line GC (formerly St. David's) and Hi-Top CC, both Philadelphia dist., each to

be sites of \$15,000,000 apartment development. . .

PGA tournament committee considering supplying words and pictures of stroke-making clinics to tournament sponsors for use in tournament programs. . . The clinics have proved highly popular with tournament galleries. . . The clinic words and pictures will give the programs instruction book value. . . Babe Didrikson Zaharias to collaborate in syndicated comic strip with a girl athlete as the main character. . .

# No Need to Weed

## With **DOLGE WEED-KILLER** on the job!

SWIFT, efficient . . . use where no vegetation whatever is desired. SAVES money and hours of back-breaking work. An hour's sprinkling with DOLGE WEED-KILLER equals six hours of weeding by old-fashioned methods. PENETRATES to the roots, destroying the plants completely. STERILIZES the soil and prevents seeds from sprouting.

### E. W. T. SELECTIVE WEED-KILLER

NOT INJURIOUS to most grasses, but acts on weeds effectively. DOES NOT STERILIZE most soils. RIDES turf areas of dandelions, plantains and other hardy weeds . . . perfect for ragweed and poison-ivy control. DOES NOT CORRODE metal sprinkling and spraying equipment. NON-POISONOUS to humans and domestic animals.

Write for complete literature, with full directions for applying these tested DOLGE products.

**THE C. B. DOLGE CO.**  
WESTPORT, CONNECTICUT

## 10,000 Sq. Ft. Creeping Bent to Be Donated to USGA Green Section

Ralph R. Bond, Old Orchard Turf Nurseries, will donate 10,000 sq. ft. creeping bent stolons (100 bu. chopped stolons) F.O.B. nursery to the USGA Green Section to be auctioned off to the highest bidder at the annual GSA Turf Conference Feb. 12 in Detroit with the entire proceeds going to the Green Section. The successful bidder may have his choice of Arlington, Cohansey, Congressional, or Old Orchard, or an equal mixture of Arlington and Congressional.

Poor greens are an obsession with Bond who thinks it is ridiculous for a golf course to have a \$300,000 plant with 30c greens. He has developed many new bent strains but he feels none so popular as the **Old Orchard** and even this strain is not the final answer, he says.

The perfect bent grass has not been developed and probably never will be. They all have their faults. Either they are not upstanding or they mat on the green; the stolons are too coarse and produce a swirl in the greens or the leaves are too wide or too thick or the nodes too far apart on the stolon, which produces a thin, weedy green; they are susceptible to diseases, such as brown patch and dollar spot or are off color; they are not winter hardy or discolor after the first early frost; they

## Smooth the way with BETTER GRASS

Eliminate continuous feeding — one complete feeding annually for the famous *Raritan Velvet Bent* gives a luxurious, healthy turf.

Certified Blue Tag Quality — 99% pure or better. Seed one pound per thousand feet of green.

Famous Wagner improved methods of growing and harvesting make possible reduced prices. Supply ample.

### Hardy, Drought-Resistant Grass Seed

FESCUE — Illahee, Creeping, Chewings & Alta  
BENTS — Highland, Astoria, Seaside & Velvet



**H. L. WAGNER & SONS**  
IMBLER, OREGON

Eastern Representative  
**C. W. BAKER**  
P.O. Box 551  
MILFORD, CONN.

lose their natural color during the summer heat or are too slow in greening up in the early spring; they are not quick to heal an injury in the green or the roots are too shallow, or a dozen other mis-behaviors.

Bond feels the grass breeder has about one chance in a thousand of reaching his goal of a perfect strain but he never quits trying. Perhaps that is one reason why his business has grown from a small nursery in a vacant lot to the largest creeping bent stolon nursery in the United States with over 14 acres under bent grass cultivation and branch nurseries in Farmington, Iowa and Richmond, Va.

In addition to the 10,000 sq. ft. of bent stolons to be donated to the USGA Green Section, a prize of 5,000 sq. ft. is being given away during the convention to a lucky ticket holder.

## Oregon Valley Harvests Huge Grass Seed Crop

Two and one-half million pounds of clean, weed-free grass seed for the lawns and country club fairways of the nation were harvested in the Grande Ronde valley, La Grande, Ore., in 1947, Chan Baker, well known seedman reports. Baker is Eastern representative of Wagner with offices at Milford, Conn. This is the largest harvest since the industry was started on an experi-

WEATHER FORECAST:

# RAIN



Plan now for handsome turf next summer by investigating Thompson Underground Rotor Sprinklers. A Thompson System pays for itself by cutting labor cost to the bone. At one Los Angeles installation (54 fairways), the irrigation "crew" consists of one man! . . . Free Plan Service provided. Write for 1948 Catalog.

BUY THROUGH YOUR LOCAL JOBBERS



## THOMPSON MFG. CO.

2251 EAST SEVENTH STREET  
LOS ANGELES 23, CALIFORNIA

*Get the Jump*  
**ON WEEDS THIS SPRING!**

*Your dealer has*

## WEEDANOL BRAND

2:4-D Lawn Weed Killers

"A type for every need

—A need for every type"

**ASK HIM!**



Manufactured by

## ASSOCIATED CHEMISTS, INC.

NORTH COLLINS, NEW YORK

**BRING**  
*Life AND*  
*Beauty TO*  
**YOUR LAWN**  
**WITH WHIRLWIND**



**MODEL 24** —  
24-inch cut. Powered  
by 3 hp. 4 cycle air-  
cooled engine. Cuts  
4 acres in 8 hrs.

**ROTARY-SCYTHE SUCTION-LIFT CUTTING ACTION . . .  
PROVED THROUGH A 16-YEAR SERVICE RECORD!**

Whirlwind's rotary-scythe cutting action mows grass or weeds of any height in any condition. And it enables you to cut close to trees, shrubbery, pavements and other landscaping obstructions — reducing hand trimming to a minimum.

To make your lawns live — healthfully and beautifully — entrust their grooming to WHIRLWIND POWER MOWERS. Write for complete descriptive literature and name of our dealer nearest you. Address Dept. G-2.

**WHIRLWIND CORPORATION**

3707 N. Richards St.

Milwaukee 12, Wisconsin



**NEW MYERS SPRAYERS**

*— ideal for Golf Courses*

Myers builds a wide range of Sprayers especially suited for golf course maintenance — weed control, spraying trees and shrubs. Wheelbarrow type and 2-wheel Utility models, and tractor drawn models for use with spray booms or power guns. Capacities up to 50 gpm, pressures up to 800 lbs. Mail the coupon.



**THE F. E. MYERS & BRO. CO.**  
Dept. K-263, Ashland, Ohio

Send your new Power Sprayer Catalog.

Name \_\_\_\_\_  
Town \_\_\_\_\_  
County \_\_\_\_\_ State \_\_\_\_\_

mental 20-acre patch of land in 1931 by H. L. Wagner and his son, Marion.

The valley's first grass crop was planted and cultivated by hand while prospering wheat farmers ridiculed the idea, warning that the land would grow wheat but little else. Today, from that small beginning in 1931, the grass seed industry has spread out over more than 3,000 acres and has brought an increase in income to the valley from \$6,000 the first year to well over \$1,250,000.

Most of the acreage is in creeping fescue, chewing fescue, alta fescue and the recently developed bent grasses which reportedly were supposed to thrive best in the coastal areas. Growers have found, however, the grasses develop surprisingly well a distance inland where they have the benefit of a good dry harvest season.

The fledgling grass seed industry which started with that first successful crop found new acreage being planted each year until now more than 125 other farmers have turned some of their richly productive wheat fields over to the cultivation of grass. The gamble taken by Wagner in face of the ridicule of his neighboring farmers paid big dividends in the years that have followed. Today he will tell you the Grande Ronde valley is "the best grass seed producing area in the United States."

**CARPENTER  
MOWER GRINDER**

**For Reel & Bed Knife**

*Many Exclusive Features*

Grinds reels and bed knives of any mower including largest tractor units. Instant change from bed knife to reel holder. Produces any desired bevel on knife and reel blades. Uniform cutting contact assured at all points without lapping. Extremely fast production. Anyone can operate.

**GRAHAM  
BED-KNIFE GRINDER**

Use for bed knives exclusively where Mower grinder is kept busy on reels. Highest precision results.

*Request Illustrated Circulars*

**GRAHAM MFG. CO.** 10 Bridge Street  
E. Greenwich, R.I.



**1948 WINTER TURF  
CONFERENCES**

- Feb. 9-13**—GSA annual Turf Conference, Detroit, Mich.
- Feb. 18**—Philadelphia Annual Turf Conference, Llanerch Country Club. C. K. Hallowell, Room 303, Drexel Bldg., 5th and Chestnut Sts., Philadelphia, Pa.
- Feb. 23-26**—Penn State College meeting, State College, Penna.
- Feb. 23-27**—New Jersey meeting, Rutgers Univ., New Brunswick, N. J.
- Feb. 27**—Beltsville Turf Gardens, 8th Post Engineer School, Fort Belvoir.
- Mar. 1-2-3**—Purdue Univ. and MRTF, Lafayette, Ind.
- Mar. 8-9**—Iowa State College and Iowa Greenkeepers, Ames, Iowa.
- Mar. 10-11-12**—Minnesota Greenkeepers, Minneapolis, Minn.



**AGRICO**

AMERICA'S NO. ONE GOLF-COURSE FERTILIZER

Order Agrico now—ask your regular source of supply, phone nearest A.A.C. Sales Office, or write to The American Agricultural Chemical Co., 50 Church Street, New York 7, N. Y.

**"QUALITY" STEEL POLES**

**STANDARD**

**"GUARANTEED"**

*Golf Course*

**EQUIPMENT**

**"ONE-PIECE" PUTTING CUPS**

**"TRUE-VUE" FAST COLOR FLAGS**

Write for Bulletin 48 showing the complete line of Standard course-tested designs.

**STANDARD MFG. CO. "CUTS-TRUE" HOLE CUTTERS**  
Box G, Cedar Falls, Iowa

**Dress Up Your Course  
with  
NEW Wagner FLAGS**



● Protect yourself against price raises by replacing weatherbeaten flags now. Wagner's quality golf flags, equipped with three grommets and tie strings, are made from select, fast-dyed hunting. An ideal material for easy flying and long service. Numerals are securely stitched to field.

RED AND WHITE FLAGS, with reverse fields and numerals, available now for quick shipment.

Set of 9 flags 12" x 18".....\$4.05 set  
Set of 18 flags 12" x 18".....\$8.10 set  
Directional flags 12" x 18".....\$1.10 ea.

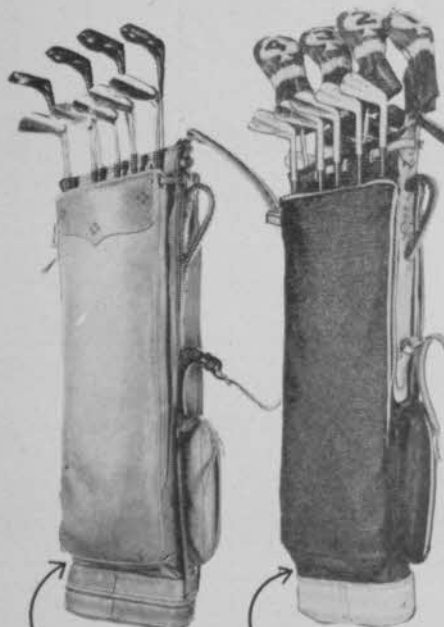
Write for prices on U. S. flags, tennis nets, archery targets, shower curtains or other canvas needs

**The WAGNER AWNING & Mfg. Co.**  
2456 SCRANTON ROAD • CLEVELAND 1, OHIO

**WAGNER  
COVERS  
PRODUCTS**

# PAX Tufhorse

## MODERN DESIGN for 1948

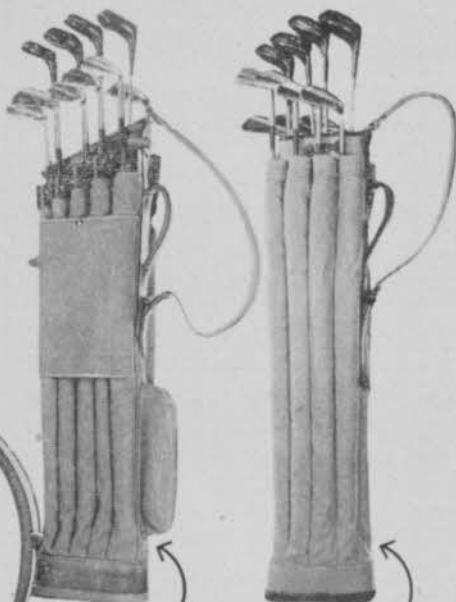


**TWIN-PAX**  
Genuine Caribou  
or London Tan  
Steerhide. All ex-  
tra conveniences.

**\$100**

**LITE-PAX**  
Same leather —  
similar design to  
Twin-Pax.  
Weights only 7½  
lbs.

**\$80**



**GOLF-PAX**

Water-proof  
heavy duck—big  
pockets—14 clubs  
—hood.

**\$30**

**EIGHT-PAX**

Grey-leather trim  
—holds 11 clubs  
—feather weight.

**\$12.50**

## A GOLF BAG FOR EVERY PROSPECT

Dealers featuring Tufhorse-MacGregor golf bags cover the entire buying market with one brand name—established since the early days of American golf.

Pax bags feature the original full-length tubes for each club—a big plus value for faster club selection and better protection. Other models in modern shapes and styles.

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# MacGregor

THE GREATEST NAME IN GOLF

4861 Spring Grove Ave. — Cincinnati, Ohio

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DES MOINES, IOWA