More customers... more customers per ball... with

U.S. DRIVING RANGE BALLS

Designed and built specifically for Driving Range operators by the makers of the famous U.S. ROYAL Golf Ball. U.S. Driving Range Balls offer you and your customers...

- the feel and click golfers love
- uniform, game-true behavior
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Available in red, green, blue, or black stripes—with your name in large or small letters in any of the four colors.

Feature the balls that favor your customers and your profits. The most economical Driving Range Golf Ball ever offered. Contact your nearest U.S. Rubber branch, or write Golf Ball Department, United States Rubber Company, Providence 1, R.I.

UNITED STATES RUBBER COMPANY

Bermudas and zoysia and the other half in bents. The Bermudas include 4 selections from Texas A&M (T-94; T-82; T-35A; T-83) and Tifton U-127, now named Tifline. The bents are C-1; Pennlu (earlier numbered (10-37-4); C-19; C-52 and C-7. The zoysia is a fine-leaved hybrid Zt x Zj, 34-35, now released in Georgia and at Purdue as Emerald.

The surface slope is down from the warm season grasses to the bent grass part of the green so the warm season grasses can be kept dryer. The tile lines are 14 ft. apart, running across the line of surface drainage. The topsoil is very deep with the top 4 in. of soil as weed-free as can be had without actually sterilizing the soil.

The planting was done April 19 to 24 with the exception of C-1 bent which was planted May 6. The tile layout, soil mixture, fertilizing and planting was done by a Purdue student majoring in Turfgrass Management under Dr. Daniel. He was permitted to do this work as practice for his own benefit.

Most of the grasses were ready for putting by July 4. The C-1 bent was later because it was planted late. The C-19 was quite slow so was not a good surface until in September. The C-7 was the first of the bents to make a surface, with Pennlu second and C-52 a close third. The T-94 and T-35 Bermudas came along fastest and made and held a finer surface than any other of the warm season grasses. The Emerald zoysia was very slow and was a putting surface only at the end of the season.

The entire area was given at least 1 1/2 lbs. of nitrogen per 1,000 sq. ft. every 10 days until it became a putting green. This practice in the Cincinnati area is extreme abuse for bents.

The Pennlu, C-19 and C-52 were at least 40 per cent covered by large brown-patch on June 11. The C-7 had only two small patches. No brownpatch treatment was given purposely in order to learn how these grasses would withstand unreasonable abuse.

The high nitrogen abuse of the bents was favorable to the Bermudas' growth and runners grew as much as 1.5 in. per day. At this rate of growth it was impossible to get a true putting surface on the warm season grasses. During July and August lighter feedings were used, plus a Verti-Cut and ample good topdressing until the surface became good.

June, 1955
I have made only temporary conclusions which are:

1. C-7. A good bent for Cincinnati, very susceptible to dollar patch, but responds to treatment.

2. Pennlu—A very fine grass—extra fine color with good treatment, a good grass.

3. C-52; C-19; C-1—In the order named are not good grasses for the Cincinnati area because of crabgrass and disease infestations.

4. T-94. Very fine texture, fine color and does not travel too fast into surrounding grass.

5. T-35A. Very fine, except color. Same as T-94.


7. At this point Bermudas and good bents are holding original planting line. Emerald zoysia grows slowly so Bermuda quickly grew into zoysia plot.

8. When warm season grasses are cut at 3/16 in., properly fed and top-dressed many of our members could not tell which area was bent and which was Bermudas.

9. C-7 and Pennlu were the only bents dense enough to keep poa anua out in fall.

I want to thank Purdue University and Texas A&M for their assistance in providing grasses to make this green possible.

Agree to Call Off Deal to Buy Spalding

Along with announcement of increased earnings for the first six months of the current fiscal year, A. G. Spalding & Bros., Inc. advises negotiations to absorb the Spalding company by a stock exchange has been called off.

The official statement:
“The estimated consolidated earnings of A. G. Spalding & Bros. Inc. for the six months ended April 30, 1955 were $320,000 compared to $200,000 for the same period of 1954—59¢ per share compared to 37¢ per share for 1954.

‘The regular quarterly dividend of 25¢ per share was declared at the Directors Meeting held on May 20th—payable June 15th, 1955 to stockholders of record June 6th.

“In April a proposal was made by American Machine & Foundry to acquire the assets of Spalding through exchange of three-quarters of a share of American Machine & Foundry common stock for one
Most Popular Glove in the Pro Shop Today

• FULL FINGER • ALL LEATHER

Champion's smooth imported capeskin is so thin and soft you hardly know it is on the hand. Now available in beautiful pastel shades, chartreuse, orchid, pink, tropic blue, and natural. Compare it to other full finger gloves selling for dollars more per dozen and you will see why it is the biggest money maker in the pro shops today.

Send for new illustrated catalog and prices on complete CHAMPION line.

Champion
GLOVE MFG. CO.
309-11 Court Avenue, Des Moines, Iowa

share of A. G. Spalding & Bros. stock. Following a complete study of Spalding by American Machine & Foundry and thorough consideration of the offer by the Directors of Spalding, it was mutually decided that terms could not be agreed upon which would appropriately serve the best interests of the stockholders of American Machine & Foundry and A. G. Spalding & Bros. Accordingly, the negotiations have been terminated.

"The plans for expansion and diversification of our business upon which management has been working for some time are now maturing."

BETTY JAMESON JOINS SPALDING ADVISORY STAFF

Betty Jameson, one of the most popular and competent women golf professionals, has returned to the Spalding golf advisory staff.

In April this year Miss Jameson won the Babe Zaharias Open with 210 for 54 holes. She finished 10 strokes ahead of Patty Berg, who was second in that event. The Jameson opening round of 65 on the 6,219 yd. Beaumont (Tex.) CC course was praised by Miss Berg as the greatest round ever played in women's competitive golf. It included 10 pars, 8 birdies, and required only 23 putts.

Miss Jameson won the 1937 Trans-Mississippi while she was a high school senior. She won the USGA Women's National Amateur in 1939, 1940 and 1942. She also won the Women's Open in 1947. She won the Women's Western Open in 1942 and 1954. In 1952 she won George S. May's World's Women's championship.

INDOOR OUTDOOR PRACTICE MAT

The manufacturers of the new Turf King combination mat report lively interest and sales among the country's golf clubs and driving ranges. Ideal for both indoor and outdoor practice of both wood and iron shots, this mat is built to take it without causing damage to clubs. Additional details may be had by writing Flexi-Mat Corp., 2249 S. Calumet Ave., Chicago 16, or consulting ad in this issue.

June, 1955
A TREAT
FOR YOUR
GREENS

USE

 Flo-Crop

NATURE'S MIRACLE
ORGANIC
SOIL CONDITIONER

Contains no commercial chemicals, rock or added soil, sewage, garbage or manure.

Improves soil structure, increases soil aeration and waterholding properties.

NOW AVAILABLE—in larger quantities—in use by Southern Country Clubs for years.

It blends perfectly for rapid and even growth of grass.

RECOMMENDED AS THE
FINES T DRESSING —ECONOMICAL
SAFE AND LABOR SAVING
"NO RAKE OFF NECESSARY"

YOUR INQUIRIES SOLICITED FOR
SAMPLES AND PRICES

JAFFEE COTTON PRODUCTS MFG. CO.
Established 1899
South Lamar St. and Jaffee Dr.
Dallas, Texas

BAILEY AND IZETT HAVE
PLASTIC INSERT IN CLUBS

Custom-made clubs having a laminated plastic insert have been designed and introduced by Bailey & Izett, 2538 Haverford Road, Ardmore, Pa. The face of each wood is fitted with an insert of resilient Synthane thermosetting laminated plastic.

Greater yardage is achieved, Bailey and Izett say, because the modulus of elasticity of the special-grade Synthane insert is close to that of the average golf ball. The Synthane insert is impact- and splinter-resistant, as well as dimensionally stable; an important consideration where extremes of heat and dampness can cause shrinkage or swelling with subsequent damage to the face.

Woods from No. 1 to No. 9 are available in two models; the average sized model 120 and the 440 model with a deeper face for low handicap players.

For men, women and juniors, George Izett custom made clubs are sold pro only.

John Riolo, 2017 E. St., Sacramento, Calif., has a copyrighted self-adjusting handicap system that is being used with satisfaction by clubs in Northern California. The system and its operation are described in a booklet, price of which is $2.

Lawn Beauty

Model 36 Professional
Designed Especially for Golf Courses

Spreads uniformly and accurately all types and brands of chemical fertilizers, as well as organic fertilizers and seeds. Particularly adapted for spreading lime and top dressing.

STAINLESS STEEL
HOPPER BOTTOM
and SHUTTER

Also used in cemeteries, parks and estates. Complete information will be sent immediately upon request.

SCHNEIDER METAL MFG. CO.
1805-G So. 55th Ave. Dept. 55 Chicago 50, Illinois
NADCO PRESENTS "HOLE-IN-ONE" CONTEST PROMOTION PACKAGE

"Pros are reporting lively interest in the big, annual Nadco Hole-In-One Contest," says William C. King, Gen. Sales Mgr. of Nadco Sporting Goods Co., 3635 W. Touhy Ave., Chicago 45, Ill.

First prize is to be a Cadillac. This will be awarded to the winner of the play-off at the end of September when a nationally prominent professional will drive off the marked balls (designating qualified "hole-in-one" contestants) to a par three (3) hole at a well known course.

Any owner of a Nadco golf product—cart or seat cane—is eligible.

The promotion is being backed by powerful national advertising plus a hard-hitting promotion package of free colorful, eye-catching window streamers, ad mats, easel counter cards, novel golf score card give-aways, envelope stuffers, contest rule cards and radio spot announcements.

U.S. RUBBER MAKES REVOLTA RAINJACKET

United States Rubber Co. now is making a lightweight rainjacket designed by Johnny Revolta. The jacket is made of plastic film in small, medium, large and extra large sizes and when not in use may be folded compactly and carried in the golf bag.

SAVE WORK! SAVE TIME! SAVE MONEY!

Simply add a few gallons of Campbell's Liquid GRO-GREEN with Foliage Dietene to regular spray solutions and fertilize greens, tees, fairways, flowers and shrubbery IN ONE OPERATION!

It's fast, easy, practical. You save labor, time, money! Because GRO-GREEN with Foliage Dietene added mixes quickly, thoroughly with all popular chemicals, for simple "onetrip" spraying. Contains the essential elements nitrogen, phosphorous, potassium plus many enriching hormones, vitamins. Apply as often as needed, for richer coloring, hardier growth, less brown-spotting, lusher fairways, sturdier root systems that take heavier traffic.

• Greens: Apply with regular sprayer. 1 gal. Grogreen to 20 gal. spray solution. Covers approx. 10,000 sq. ft.
• Fairways: Regular Sprayer. Use 2 gal. per acre with 8 gal. of water.
• Tees, Shrubbery, Flowers, etc.: Use regular sprayer. 1 gal. Grogreen to 100 gal. water or use Automatic Gro-Gun on hose.

Mail coupon below for FREE LITERATURE, details, prices, name of distributor.

H. D. CAMPBELL CO.
Rochelle 14, Illinois

Please send me FREE DESCRIPTIVE LITERATURE, all details about Gro-Green.

NAME ____________________________
COURSE OR CLUB _______________________
ADDRESS ___________________________
CITY _____________________________ STATE ____________

June, 1955
"SWING GAUGE" TO AID PUTT, APPROACH PRECISION

"Putt-O-Graph" a light rustproof metal device with a movable indicator, was invented by Andrew T. Rolfe, of the Golf Research Institute, Country Road, Westport, Conn.

This practice device is used by placing it in line with the putt then adjusting the movable indicator so the face of the putter or approach club face can be kept squarely across the arc of the swing.

The inventor is a prominent public relations man whose bad putting was discouraging him with golf. He worked on this gimmick for a couple of years and got it to its present stage where it has him averaging 31 puts a round. A number of professionals are using the Putt-O-Graph in their teaching, and are selling it to members.

MACGREGOR ADDS NEW KID CLUBS; NEW SAND IRON

MacGregor Golf has revamped its line of Jack Burke, Jr. woods and irons and has added a completely new model, called the Apprentice. Burke models are duplicates of MacGregor's top men's woods, proportionately reduced in size for youngsters between ages of 11 and 14. The Apprentice model is also styled along the lines of adult clubs, but finished in weights and lengths suitable for young golfers between the ages of 7 and 10.

A shorter than standard golf bag, especially designed for the "Apprentice Model" Junior golf clubs is also available.

MacGregor also has an all-new MT sand iron with a wider sole and a Colokrom face. Back part of the sole is higher than the front.

The company has added to its line a Lew Worsham, Jr. putter. This is a modernized mallet head aluminum putter with a brass weighting which covers the sole and serves as an attractive face insert. The putter has a True Temper chrome shaft and a "pistol" grip.

CAMPBELL ADDS GRO-GREEN PLANT IN IOWA

Farm Products Div. of H. D. Campbell Co., Rochelle, Ill., plans to install a liquid fertilizer manufacturing plant for direct soil application formulations at Strawberry Point, la.

Campbell's Gro-Green concentrates manufactured at Rochelle, Ill., have grown to national proportions in less than three years and are now sold from coast to coast.

Wm. Cannon, mgr. of Campbell's Farm Hatcheries, will also be in charge of the fertilizer formulation setup.

Several other processing locations are under consideration for similar plant installations in other states.

WALDRON INSECT REPELLENT FOR GOLFERS' USE

Lew Waldron, former professional, who has built a very successful chemical business, now has an insect repellent which made good with golfers in extensive tests last summer. The Waldron repellent now is being marketed nationally by Columbia Chemical Co., 154 E. Erie St., Chicago 11, Ill.

The material, a liquid, is sprayed on hands and rubbed over face, neck and legs. It repels mosquitoes, chiggers, gnats and flies.

It comes in a compression can for handy application and is for pro shop sale at a moderate price. Waldron will be glad to supply further details to pros, on request.

Among recent foreign purchasers of West Point Products Corp. Aerifier is the Tokyo (Japan) GC.

SLIP-PROOF POOL MATS NOW MADE BY AMERICAN MAT

Accidents resulting from slipping on wet swimming pool decks can now be largely prevented by a new rubber runner mat known as Do-All.

This matting is 3/16 in. thick with 1 3/4 in. wide ribs which run parallel to the length, separated by 1 1/2 in. and 1 3/4 in. depth recesses. It is available in black, red, green, blue and mosaic, 23 in. wide in rolls 50 ft. long, and 34 in. wide by 38 ft. long. Sides and edges are beveled.

Free literature and price information will be supplied by American Mat Corp., 1802 Adams Street, Toledo 2, O.

ANTI-TANGLE DEVICE ON BRITTEN TRIMMER-EDGERS

Overheating and premature motor failure associated with conventional electric edgers and trimmers, caused by grass and weeds being wrapped into the motor shaft when cutting long and heavy growths, are eliminated in "Trim Master" and "Bantam" Trimmer-Edgers manufactured by E. F. Britten and Co., Inc., of Cranford, N. J.

A patented anti-tangle device, operating on the scissors principle with a fixed blade on the motor support and a revolving blade on the motor shaft, severs and minces the long strands before they can be wrapped into the shaft. Tangling of grass around the motor shaft is eliminated by this exclusive device, reducing motor drag and resulting in longer service life.

Trimmers are converted to power edgers quickly and easily by merely adjusting the tubular aluminum handle. A hardened steel edging guide rides on the sidewalk, curb or other flat surface and guides the tool for making precision edges.
O. S. BAKER FINE TURFGRASSES

(30 Yrs. Golf Course Superintendent — There's no substitute for experience.)

We are now growing CERTIFIED EMERALD ZOYSIAGRASS for YOU.

ZOYSIAGRASS—Rhizomes for vegetative planting of
MEYER (Z-52) JAPONICA propagated from parent stock U.S.D.A. and
RUGLAWN (FZ-17) MATRELLA. Also BERMUDAGRASS Hybrids T-57 and T-127.

FULL INFORMATION BY MAIL ON REQUEST.
358 N. W. 27th Ave., Phone 64-3352
MIAMI 35, FLORIDA

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ANNOUCE WINNERS OF FURGOL-McGREGOR SPORTSWEAR CONTEST

The six winners who came closest to National Open Champion Ed Furgol's score in the Masters' Tournament—and who, in return, "won" Furgol for a day, have been announced by McGregor Sportswear, sponsors of the contest.

The Contest which closed two days before the Masters, offered as its principal prize a visit by Furgol to the winner's home course for a day's round of golf with instruction.

The six regional winners:
John F. Lavelle, 330 Douglas Street, Syracuse, N. Y., who plays at the Tecumseh GC; Douglas Cohn, 14, 113 South 68th Avenue, Omaha, Neb.; A. M. Briggs, 1200 S. Federal St., Denver, Colo., who plays at Cherry Hills CC; H. D. Merriam, 2901 Lenox Road, Atlanta, Ga., who plays at Ainsley; Charles H. Hopkins, 3029 Reuter Ave., Waco, Tex., who plays at the municipal course, and Joseph M. Raffin, 308 N. Meadow St., Richmond, Va.

DON TAIT TELLS ABOUT SPALDING SPECIAL ORDERS

Don Tait is a sports specialist—a golf club expert who has been handling, for years, the orders of such celebrities as President Eisenhower and Bing Crosby and who even has devised clubs for polio victims.

"The President," says Tait who works in the A. G. Spalding plant at Chicopee, Mass., "like grips that are larger than regular. He prefers a small amount of hook on the face of the woods. He likes Bobby Jones clubs."

Bing Crosby uses 46-in. woods.

"That's longer than ordinary and started a trend," says Tait, "but I remember that we used to make clubs 50 in. long for Primo Carnera. And we manufacture clubs all the way down to 30 in. long for children just starting out.

Eight-year-old Judy Torluemke of St. Louis, a recent Pee Wee champion, was in the latter category. Clubs with ... for demonstration work," says Tait. Trick shot star Joe Kirkwood would order a shaft made of lead tubing that

---

GREATER DISTANCE...DOESN'T PUDDLE

Just a single line of water, rotating, so all the water soaks in before the line passes over again. Up to a 90-foot diameter with good pressure; down to as little as a 15-foot diameter with a turn of the faucet.

DOUBLE SPOUT Style (Illus.) $19.50

SINGLE SPOUT $18.75

DOUBLE ROTARY SPRINKLER CO.
422 Admiral Blvd.
Kansas City 6, Mo.

---

June, 1955
Clean out Crabgrass

EASY PROVEN
Scott's WAY

No mixing, apply SCUTL as it comes from bag. 3 or 4 treatments scuttles crabgrass without discoloring good grass. Controls fungus too! Ask for estimate.
O M. Scott & Sons Co., Marysville, Ohio

Pee Gee Bee
For Backyard or Warmup Practice

Pee Gee Tee
No More Broken or Lost Tees
ASK YOUR REGULAR DISTRIBUTOR

Punch-Lok, extensively used in industry for making quick, leakproof repairs to hose, is becoming standard equipment in golf course maintenance buildings.
The Punch-Lok method consists of double-wrapping a broad, flat band of durable, high-tensile material around the wrapped around his neck, Tait relates.
"A lot of golfers probably feel that way themselves on occasion," says Tait, a Springfield, Mass., native.
Professionals such as Gene Littler, Bud Holscher, Shelley Mayfield, et al all pre-

Don Tait (R) supervises special order as Bill Dun-
can sees everything is perfect to smallest degree.

fer greater stiffness in the shaft of their club than do players who perform less often, observes Tait.
"Usually the playing pros are fighting a hook all the time and need stiffness for better control," Tait says.

A difficult case for Tait was that of a polio victim who had never played golf before but whose doctor suggested the sport for its many values.
"He had no strength in the fingers of his left hand and very little in his right hand," recalls Tait, "so we recommended that he play left-handed. To avoid his losing his grip with his left hand, we sewed a glove to the grip to hold his hand in."

The result? The player recently wrote to Tait, asking for more clubs.
About 50,000 special order clubs a year are made by Spalding, according to Tait. Length, grip sizes and changes in lie and loft are among the most usual demands. A special order requires about four or five weeks for completion, says Tait.

One recent order he remembers vividly was for a complete set of irons all marked No. 8, as per request.
"This guy got tired of being asked what he used for a shot," says Don, "so he replied No. 8 to everything and took out an iron marked No. 8 to prove it."
hose or other item to be repaired or clamped, and securely locking the band while under tension, with the pressed-steel Lok.

Although hose repairs provide the principal use for the Punch-Lok in golf course work, there are many other clamping and mending jobs handled by the device at golf courses.

Punch-Lok, 321 N. Justine st., Chicago 7, Ill., has a new catalog which will be sent on request to supt.

**SHAMROCK MAKES NEW PUTTING, CHIPPING PRACTICE CUP**

An all-metal practice cup that can be used for chipping as well as putting is a new product by Shamrock Specialty Products, 29000 Lakeland Blvd., Wickliffe, Ohio. This new cup uses an entirely different principle that allows a ball hit too hard to roll through the cup.

Each “Noh-ole” practice cup is complete with decal numbers from one to nine. A complete practice course can be laid out using three cups, with different numbers on three sides. Cups sold singly, sets of three or cartons of 12. Available through golf jobbers, or write direct if your jobber can’t supply.

**GOLFCRAFT GLASSHAFT POINTS TOLD IN NEW FOLDER**

Details of the performance of the Golfcraft, Inc., Glasshaft are shown in pictures taken at ten one-millionth of a second in the California Institute of Technology testing laboratories.

The interesting photographs and word story of the Glasshaft appear in a new brochure being sent to pros by Golfcraft, Inc., 1021 Grant st., Escondido, Calif.

Limited numbers of the brochure are available for distribution by pros to their members. If you want copies, write Golfcraft.

The new Glasshaft, which is constructed
of Fiberglas laminated to a thin steel core, also is featured in a ball driving demonstration in a display window of the Owens-Corning Fiberglas Corp. building at 16 E. 56th st., New York City. A Lloyd Mangrum Glasshafted club made by Golcraft hits a practice ball against a transparent target at intervals of 1½ seconds.

KOZAR'S KIDS INSPIRE NEW PWEE CLUB LINE

Donna, 11, and Martha, 9, (left and right, above) daughters of Mike Kozar, head of Kozar's Golf Development Laboratory, Cuyahoga Falls, O., inspired their daddy and his staff to design and build a new line of woods and irons for kids from 3 to 16. The Kozar youngsters are excellent golfers. Martha came in 4th in the 1954 National Pewee tournament. Mike got True Temper to make a special shaft for the Pwee clubs, and had Flexi-Grip make molded grips especially for the juniors. Harry Hasmer of Kozar's iron head division worked out the special heads for the clubs. Production has started on the Pwee line.

"COLT" NEW PRO-ONLY GOLF BALL MAKES ITS DEBUT

Colt Golf, 161 E. 37th St., New York 15, N. Y., reports promising sales performance for its brand new "Colt" golf ball judging from its fast get-away in the New York metropolitan area where its introductory distribution was launched last month.

The new liquid center "Colt," wound with one continuous strand of rubber thread, responds to the whip for those who want distance, yet is calm and true on the greens, according to the makers. The lasting whiteness of its durable cover material is the result of persistent research and testing. The ball will retail at the usual price of top quality pro-only golf balls. More complete details from company at address above.

PLASTIC TILE STANDS SPIKES

Ray Wagman, now mgr., Racine (Wis.) CC, is at right with a square of Vinlyast tile, made by Vinyl Plastics, Inc., Sheboygan, Wis., that was installed six years ago in clubhouse at Pine Hills CC, Sheboygan, when Wagman was mgr. Tile shows no signs of spike wear despite heavy traffic.

At the left is Robert E. Kohler, former Pine Hills president and head of Vinyl Plastics. Oldest installation of the floor covering is at Riverdale CC, near Sheboygan, where the veteran Freddie Thiel is operator. Thiel installed the material as grill room flooring in 1948, and the next year installed it throughout the clubhouse and in the pro shop.

WILSON TELLS FEATURES OF NEW TURFRIDER CART

The all-new Wilson Sporting Goods Co. Turfrider caddy cart has a single operating lock and opening mechanism which makes opening and closing simple and quick. When folded, the Turfrider stands upright and the wheels fold down—enabling the cart to be rolled in this position with finger tip effort.

Featuring a center bar of chrome plated steel and 12-in. aluminum die-cast wheels, the Turfrider maintains a low center of gravity which keeps it balanced smoothly even on rough ground. It has semi-pneumatic airplane type tires with a new smooth tread to prevent dirt-catching.

Wilson has installed a patented adjustable handle which extends for pulling.

All sizes and shapes of golf bags can fit the new lightweight Wilson cart because of new types of expandable brack-