

Start the New Season RIGHT..with the Improved Toro Greensmowers

Here is some real news for every progressive Golf Course Superintendent.

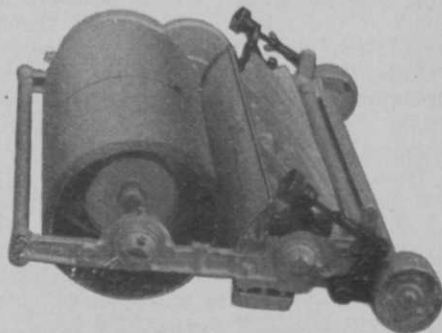
Always a fine mower, for 1934 the Toro Hand Putting Green Mower contains a number of new and worth-while improvements which greatly increase its operating efficiency.

Chief among the improvements is a new graduated finger tip adjusting gauge for regulating the height of cut. Easily accessible and absolutely accurate, it provides a correct adjustment without the need of using a straight edge. True, even cutting is insured.

New, automatic, self-adjusting ball bearings on the reel shaft, with screw-type covers, provide longer life and less friction in operation. A very important feature.

The bed bar and all heavy cast parts are now built of aluminum alloy, effecting a great saving in weight.

You can see these mowers at the sales room of your nearest Toro distributor. By all means include them in your 1934 budget.



TORO MANUFACTURING CO.

3042-3168 Snelling Ave., Minneapolis, Minn.



The advertisers pay for your GOLFDOM copies; patronize them.

The CN agent at Walkerville, 150 miles away, returned the ball to Seeman a few days later.

That's an argument for marking your name on a golf ball, or playing on courses by the Canadian National right of way. We can't decide which.

* * *

HARRY ADAMS of Hickory Hills, fee-course in the Chicago district, is about the only fee-course pro in that territory who came through the competition of the Century of Progress with its inviting array of beer, pay toilets and fan-dancers. Harry was promised a bonus if he increased business over 1933. He hiked it 50%. The club gave him a party and paid the difference between his old automobile and the new one he is driving now.

* * *

BRITISH GOLFERS are cheering because the thirteenth annual Boy's championship was won by P. B. Lucas, a left-hander, who began golf at the age of three. Young Lucas is the first British boy to win this championship in 7 years. He is a star cricket and football player and contradicts the British belief that golf ability is obtained at the sacrifice of dexterity in other games.

* * *

A PRO NEVER can tell how far-reaching will be the effects of one of his displays of energy. Some months ago GOLFDOM printed a little yarn about Al Collins, Kansas City pro, putting on a clearance sale of clubs.

One of Al's former members happened to pick up a copy of GOLFDOM in Honolulu and ordered a set of these close-out clubs from Collins.

* * *

SOME PROFESSIONALS who had pupils contesting in the Women's National and National Amateur championships have a suggestion to advance. They believe that considering the extra time a pro contributes without expense to drill his pupils for championships and to advance the game, the pro is entitled to free admission to these major tournaments.

Seems like there's something to that request. Issuing pro passes at the requests of contestants in the major amateur tournaments so the instructors can follow their proteges doesn't take much dough away from the gate, but it gives the pros recognition for their efforts and results in instruction.

Amherst Greenkeeping School Now in Session

MASSACHUSETTS State College Winter School for Greenkeepers at Amherst began Jan. 3 and will continue for 10 weeks. The advanced course will not be given this year; there is a shortage in the teaching force and no hours for the course are available.

The 10-week course under L. S. Dickinson, assistant prof. of agronomy is one of the most valuable educational activities in the golf field. This year it is expected that the course will have more interest and value than ever before as there is better equipment now available at the school. There will be more management work than usual in the curriculum, especially soil management and turf management.

The school will conclude with an exhibition and some demonstrations of maintenance equipment, a feature always excellently handled at Amherst.

Howard C. Toomey, Course Builder, Dies in East

HOWARD C. TOOMEY of Toomey and Flynn, course architects and builders, died at Philadelphia Dec. 10. Mr. Toomey had been in poor health for about two years.

Mr. Toomey, formerly in railroad contracting work, and Mr. Flynn a golf architect, formed their partnership 12 years ago. The company has been an outstanding success in the golf business both from commercial and artistic standpoints. Some of the jobs in which they figured were Boca Raton and Indian Creek in Florida, Philadelphia CC, Country Club of Brookline, Shinnecock GC, Pepper Pike CC in Cleveland, and A. D. Lasker's Mill Road estate course.

Toomey was said to be one of the first—if not the first—to build golf courses on a contract basis and was a master of construction operation in every detail. Working as superintendent for him amounted to taking a post-graduate course in golf construction.

A DIAGRAM or blueprint of the entire water and drainage system should be framed and hung in the pump house. Every valve, shut-off and drain should be plainly labeled.

Character of Buckner equipment is proved by installation of hoseless systems at many fine courses in 1933, such as:

- The Country Club of Brookline.
- Saranac Inn
- Upper Saranac, N. Y.
- Charles River Country Club, Boston
- Deepdale Country Club, New York
- Pinehurst No. 2 Course
- Pinehurst, N. C.



Whenever the golf field discusses
FAIRWAY IRRIGATION
 the first name that comes to mind

- .. is the name that appeared on the first equipment especially built for hoseless golf course watering.
- .. is the name that today appears on more than 80% of fairway irrigation equipment.
- .. is the one name that assures dependable performance—maximum efficiency—and utmost economy in fairway irrigation...

BUCKNER

SPRINKLERS *and* VALVES

BUCKNER pioneered and developed golf course sprinklers and valves to their present day high point of efficiency. In the complete BUCKNER line you'll find equipment exactly suited for every condition of golf course water supply and pressure.

An adequate, efficient watering system for fairways can be properly installed for a rea-

sonable sum these days. For the same amount, or what may appear to be less, an inadequate, inefficient system, can be had. So, if you are planning to water your fairways, now is the time to look into every phase, thoroughly.

Whether it be the installation of a fairway system, additions to your greens and tee equipment, or the purchase of labor-saving Valves, the proved dependability of Buckner equipment assures you complete satisfaction.

Experimenting is costly in golf course irrigation. We can give you reliable guidance based on years of specialized study and experience. WRITE -----

BUCKNER MFG. CO.
 FRESNO, CALIF.

33 West 60th Street, New York, N. Y.
 P. L. Baldock, 2240 Casitas St., Pasadena, Calif.

Thank you for telling the advertiser you "saw it in GOLFDOM."

Many Vital Course Jobs Can Best Be Tackled in Winter

By VERNON STOUTEMYER

WHEN THE respective green-chairmen of the Elysian Hills and the Wampadoodle clubs begin to check up on the condition and appearance of the course early next season it's dollars to doughnuts that the greenkeeper who will do the least perspiring under the collar will be the one who got in the best licks fixing up the course and renovating of machinery this winter.

One of the marks of a superior greenkeeper is that he is always a few jumps ahead of the club officials. The greenkeepers who are going to be driving high powered cars a few years hence are the ones who are right now putting punch and initiative into their jobs. Initiative is the ability to do the right thing without being told. It depends partly on seeing clearly the things which need to be done, things which may be so obvious that they are unnoticed by the average person.

Even if the conscientious greenkeeper sometimes feels that his efforts in behalf of the club are not always noticed and appreciated by the officials and the members, he may feel fairly confident that his services will some day be demanded somewhere. Still, in spite of all of the numerous discussions of recent years on efficient course maintenance in the face of slashed budgets, the sad fact remains that today many greenkeepers simply cannot do themselves justice. Nevertheless, playing conditions on some of the hardest hit clubs seem almost miraculous, and show what can be done.

Many of the larger clubs have found it is wise to keep the greenkeeper and possibly even some of his working force employed during the winter. This is not true of smaller clubs in a great many cases and here the greenkeeper should strive to increase the work done on the course during the slack season. First of all, it will doubtless be necessary to convince the hard-headed business men who manage the club that the work is justified, and indeed this is as it should be.

It is a great advantage to the green-

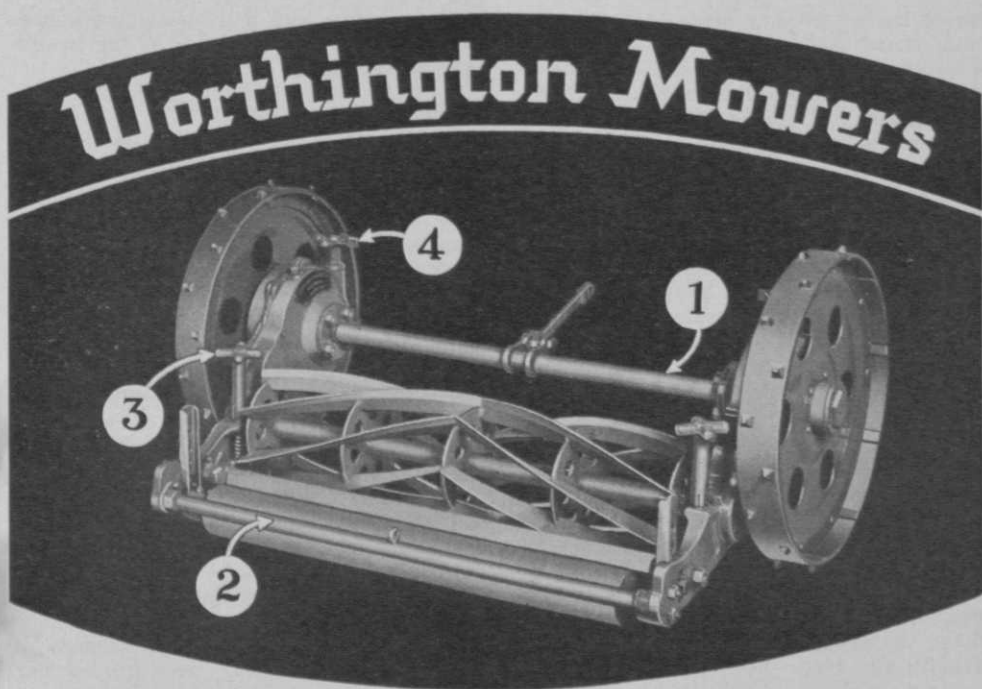
keeper, on the smaller course in particular, to be a good mechanic. More than ever, in this year of grace will the motors and equipment need overhauling. Regardless of the age of the machinery which is to be used for the coming season, it should be put in first class shape and should be greased and ready for service when the golf season opens. Mower units should be sharpened or sent back to the factory for reconditioning.

Mild Winter Forecast

There are a number of reasons why this season will probably be an especially good time for clubs to do some extra outdoor winter work. Both wages and commodity prices seem to be on a long upward sweep. In addition, the present winter is apt to have more stretches of mild weather than usual. If what scientists tell us regarding the 11-year weather cycle corresponding to sun spot changes is true, then we may expect a few more mild open winters. After that they will become more severe until some time near 1950 when they will be more mild again. The mild weather of the latter part of 1933 has been very favorable to outdoor construction work, particularly to that conducted under the numerous relief work projects.

Is Winter Seeding Practical?

More information should be available on the winter fertilization of fairways and tees. Good results have occasionally been reported of sowing grass seed on frozen or snow-covered ground. Of course this method would not be suitable for slopes with considerable wash. Alternate freezing and thawing and the early spring rains imbed much of the seed in the soil where it is ready to germinate at the earliest possible date. It has been claimed that this gives a turf more quickly than sowing in the early spring, after the ground has become dry and workable. This method of sowing closely approximates the conditions under which grass seed is germinated in nature. Since it has been found that reproducing natural conditions of the



None but the Worthington Unit is equipped with the herringbone reel blade. The alloy steel blade stays sharp longer. Lasts longer. Does not nick out.

These Improvements on Fairway Mower Unit
—Decrease Scalping — Cut Down Parts Wear—
—Make Knife Adjustment Easy—

GREATER RIGIDITY—The best of Units—ours among them—have had too much twist. Weren't rigid enough. We admit it. Caused uneven cutting and extra wear on parts. The improved Worthington Fairway Unit overcomes all that—and more. The axle (see NO. 1) is larger, stronger. Back of the roller has been added a sturdy tie-rod (see NO. 2). The whole Unit now has a box-like rigidity. No twisting possible. Even cutting made sure at all times.

DECREASED SCALPING—It is surprising what a difference moving the roller closer to the cutting knife makes, in overcoming scalping. We can now honestly say that this new Worthington Fairway Unit scalps less than any other. Say it, and prove it to you.

HAND-KNIFE ADJUSTMENT—In addition of our usual quick-acting hand-shift for the gears (See NO. 4), our new Unit is now equipped with one for the cutting knife (see NO. 3). No fussing with wrenches. Just a turn of the hand-wheel does the trick. Self-locking in any position.

OFFER ON SCOUT OVERGREEN
 We are still stubbornly contending and effectually proving, that our Overgreen Power Mower will pay for itself the first year, in savings. In fact, if the savings don't pay for it, you needn't. That's fair enough, wouldn't you say? Write for full particulars, you'll get them promptly.

MAIN OFFICE:
 Stroudsburg,
 Pa.

Worthington
Mower
 Company

Sales Agencies
 in all Principal
 Cities of U. S.

If you don't see what you need advertised in GOLFDOM, write us.

forest in the nursery gives best germination of tree seeds, may we not also surmise that sowing grass seed in mid-winter should be studied in comparison with the efficiency of spring or fall seeding.

Likewise, the pros and cons of spring vs. fall fertilization of turf have been thrashed out many times, while the effect of applications in the winter has apparently aroused little curiosity. While we should not want to be understood as advocating fertilization of grass during dormancy, an interesting example which has come under our observation seems to be worth recording. The wide-awake greenkeeper of an Iowa golf club near to an old army camp noticed that the manure from the stables had been carried to a place in some nearby woods. At a negligible expense to the club this well rotted manure was hauled to the club grounds during the winter and was applied liberally to all of the tees, which were of Kentucky bluegrass. When the playing season began the slight amount of litter that was left was raked off. The density and deep color of the turf the following season was remarkable. One noticeable effect was that the grass of the tees was green and in active growth, while the adjoining fairways were still brown and lifeless.

Work on Trees in Winter

Trees on the golf course may be pruned during winter or early spring. Pruning aids in controlling insect pests or diseases. Local outbreaks of one or the other are common, but fortunately most of them are not very destructive for more than a few years. Thus a little attention over a short time may save valuable trees on the course.

A typical example of an insect pest which is causing a loss of fine trees on some of the golf courses of the corn belt just now is the two-lined chestnut borer which works just under the bark and injures the layer of the tree from which growth takes place. The leaves drop from the tree in midsummer and soon the tree becomes stag-headed. If the infestation is severe the tree soon dies. The insect is especially deadly to red or black oaks, but causes little damage to the white oak. About the only things which can be done are to fertilize the trees to keep them in vigorous enough growth to repair the injury, and to cut down and burn dying trees. This will prevent the spread of the adults to other nearby trees the fol-

lowing season, and will furnish good firewood for the club fireplace or the heater in the work shed.

Policing the Grounds

There are many things which can be done around the course during the winter. Perhaps there is rubbish to destroy, new sand to haul to traps, etc. There may be places where an additional bridge could be used or where a few steps and a railing on a steep incline would be appreciated by the elderly members. Calendars of operations for various times of the year for florists, gardeners and other horticulturists have been published.

The value of a good heated workshop for indoor work in winter is being realized, and the trend is definitely toward the building of more compost and machinery sheds and more workshop space. Here the machinery can be overhauled in comfort. Ball washers, benches, and all kinds of wooden and metal fixtures about the course can be painted at a temperature which will be high enough to give the best results. The life of flag poles and other fixtures of the greens and tees has been all too short in the past.

In order to keep up with new ideas the greenkeeper should set aside a few days of the winter to attend the convention of the NAGA and also some college short course if possible. He may have time to read some good books on soils and fertilizers, or some of the articles on turf culture in back issues of *GOLFDOM* or other turf publications which he didn't have time to read during the summer.

Undoubtedly the greenkeeping profession carries with it some degree of seasonal employment. It has been our humble effort to show that it need not be so, if greenkeepers sell the idea that their services are valuable in the winter as well as in the summer. Perhaps nothing will do it as well as a goodly number of actual demonstrations.

"CUREX," NEW TURF PREPARATION, BEING INTRODUCED

New York City.—A new brown-patch preventive and turf disinfectant, to be marketed under the trade name "Curex," is being introduced by W-G Chemical Co., 500 Fifth Ave. G. G. Wittwer of that organization writes: "Dr. E. D. Wilson and I have been working with turf disinfectants for a long time, know the game, and in 'Curex' we have a really unusual and outstanding product." The company will gladly supply literature on request.

GET THE COURSE READY

and you'll get the play!

25 years' experience with the country's leading courses proves . . .
"The better the course, the greater the play." Are you ready for '34?
HERE ARE SOME TIMELY SUGGESTIONS FOR SPRING:

WORTHINGTON

THE WORLD'S STANDARD IN GOLF MOWING MACHINERY

FAIRWAY GANG MOWERS

The new Convertible MULTIGANG cuts a 16-ft. swath. All Worthington units are interchangeable and frames convertible. The seven unit MULTIGANG may be converted into a five-unit Quintuplex or three-unit Triple.

THE SCOUT OVERGREEN

Cuts 1,000 square feet per minute with ribbon effect or in circles.

THE LAWN TRACTOR

Shortest, lightest and most flexible golf tractor made.

SUPPLIES and EQUIPMENT

GRASS SEED

Quality high—prices low

Kentucky Blue Grass
Recleaned Red Top
Chewings Fescue
Poa Trivialis
Seaside Bent

FERTILIZERS

Bag lots, ton lots, car lots

Nu-Vim
Swift's Special Golf
Milorganite
Ammonium Sulphate
Nitrate of Soda
Superphosphate

EQUIPMENT

Selected from experience for efficiency

Tractors	Cutters
Mowers	Flags
Seeders	Poles
Discers	Cups, etc.

INSECTICIDES — Eradicators for any pest

Semesan
Nugreen
Arsenate of Lead

Calo, Color
Calogreen
Calomel

Corrosive Sublimate
Red Arrow Sprays
Diworma

Send for the J. Oliver Johnson Catalogue—the guide to economical purchases

J. OLIVER JOHNSON, INC.

World's Largest Golf Course Equipment House

940-960 W. Huron St., Chicago, Ill.

Phone Monroe 6580

The advertisers pay for your GOLFDOM copies; patronize them.

Not only BETTER COMPOST

but:

- compost in which all the raw materials have been used—no waste!
- compost made from lumps or sod, wet or dry—no delays!
- compost mixed and delivered in the finest, uniform grade— as fast as two men can feed the hopper!

That's why
ROYERS
ARE SAVING 70% to 90%

Made in four models

SEE THE ROYER AT THE CONVENTION

A Model "M" ROYER will be on display in the booth of Golf Equipment, Inc., during the National Greenkeepers' Convention, William Penn Hotel, Pittsburgh, Jan. 30th-Feb. 2nd.

See it! . . . You'll get a good idea what the ROYER will do.

SOLD THRU LEADING GOLF
EQUIPMENT DEALERS

ROYER
FOUNDRY & MACHINE CO.
158 Pringle Street (Kingston Station)
WILKES-BARRE, PA.

ST. MUNGO'S FORMER PRESIDENT DIES IN ENGLAND

Alexander C. Wood, former president of St. Mungo Mfg. Co., of America, and a former partner of the St. Mungo Mfg. Co. of Glasgow, died Oct. 11 in England, to which country he returned after retiring from the St. Mungo Mfg. Co. of America presidency in 1931. He was well known and liked by many American friends and business associates who will mourn his loss.

VANDERBECKEN TO ANNOUNCE NEW GOLF SUPPLY CONNECTION

Robert Vanderbecken, former sec. of Worthington Mower Co., is planning an interesting new connection in the golf course supply field that will retain in this line of work a widely known and able operator.

Vanderbecken formerly was with Carter's Tested Seeds in England, Canada and the United States, and also was active in golf course architectural and construction work, prior to joining the Worthington forces in opening their business in Canada. He also was active in establishing the Worthington business in England and other export territories.

McCLAIN ADDS "KOOLDRINK," NEW COURSE SPECIALTY

Canton, Ohio.—The McClain Brothers Co. line of putting green specialties will be continued in 1934 as heretofore. "Fungol" for the control of brown-patch and the eradication of soil vermin is their headliner. Also important is the McClain all-chemical and wholly soluble putting green fertilizer, "Veg-e-tonic," which the makers claim has unusual value for green fertilization, with high rating of nitrogen, phosphoric acid and potash, and containing no useless fillers.

Along with "Fungol" and "Veg-e-tonic" the McClain line includes the "Hydro-Mixer," an inexpensive piece of equipment which makes it possible to completely treat or fertilize an entire green in 10 to 15 minutes; the McClain underground hose locker, an all steel, permanent receptacle for the hose and sprinkler at every green; and the new "Kooldrink" outfit for supplying cold drinking water from present water system at any part of the course, without the use of ice, electricity, chemicals, machinery or other expense. The makers expect this novel and interesting piece of golf course equipment will prove attractive to those clubs, supplying players with cold drinking water during the warm summer days.

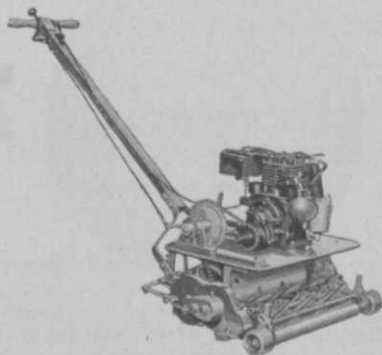
Literature on any of these items may be had by writing McClain Brothers Company, Canton, Ohio,

CHANGE NEW YORK OUTLET FOR WORTHINGTON MOWERS

Stroudsburg, Pa.—Worthington Mower Co., through its president, J. B. Hurlock, announces the closing of its New York offices and the appointment of the Arthur D. Peterson Co. and George Malvese & Co., New Hyde Park, L. I., as exclusive distributors for the Worthington line in the New York district.

"GREENSKEEPER" IS LATEST IN MOTO-MOWER LINE

Detroit, Mich.—After two year's experimental work, the Moto-Mower Co., 4600 Woodward Ave., is introducing its new "Greenskeeper" model putting green mower. Weight of machine has been held to 165 lbs., without sacrifice of sturdy construction or necessary features for satisfac-



tory operation. Moreover, according to the makers, weight has been distributed so that ground pressure on greens is no greater than that of a golfer's foot.

Among the specifications are: double gear drive, oil tight housing; throw-out clutch disengages reel for transport; cutting unit, 8 crucible steel blades; 1/4 to 3/4 in. cutting height; forward catch grass-box; motor air cooled, built-in reduction speed gears, oil splash lubrication, Tillotson carburetor and air-cleaner.

For a full description of the "Greenskeeper," write the manufacturers for their recently issued folder.

PENNSYLVANIA TO PUSH WIDER FAIRWAY UNIT

Primos, Pa.—Pennsylvania Lawn Mower works plans no changes in its putting green mower for 1934, believing the few refinements added last season, including the high-speed 8-blade cylinder, to be all needed to produce smooth, ridgeless greens

IN THE BAG FOR 1934



While you are making up the maintenance budget for 1934, set aside some money for brown patch prevention with Semesan or Nu-Green.

When the weather is against you these Du Bay fungicides keep greens healthy and unscarred at remarkably low cost! Semesan, with its ten-year history of successful control, is recommended for normally fertile turf. Du Bay Nu-Green is equally effective, but it is advised where fertility is lower.

Write your seedsman or supply house now for free turf disease pamphlet, or send direct to Bayer-Semesan Co., Inc.

NEW LOW PRICES

Semesan	Nu-Green
25 lbs. . . . \$ 46.25	25 lbs. . . . \$ 30.00
100 lbs. . . . 180.00	100 lbs. . . . 115.00
200 lbs. . . . 525.00	300 lbs. . . . 330.00



BAYER-SEMESAN COMPANY, INC., DEPT. A-1
Du Pont Bldg. Wilmington, Del.

without blade marks. For lightness and ease of pushing, aluminum alloy castings are now standard for the Aristocrat, a side-wheel mower suitable for greens, and Pennsylvania's tee-mower.

Because the price per width of cut is less and scalping is no greater, P.L.M.Wks. plans to emphasize and recommend its 36 in. fairway unit this season, rather than the 30 in. unit. Results obtained with the wider model last season were very satisfactory, according to N. D. Perine, vice-pres. of the organization.

Innovations in the Pennsylvania line in-

LEWIS GOLF BALL WASHER

("Standard thruout the World")

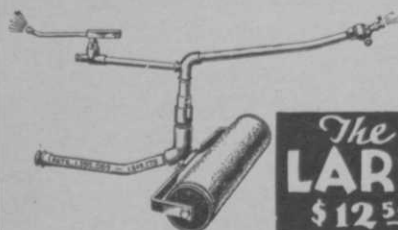
As necessary as the "tee itself"—Lewis Washers are durable, economical and priced for even the smallest club. See your golf equipment dealer now—and specify LEWIS WASHERS.

Lewis Washers in lots
of 1 to 10.....\$6.00
—in lots of 11 to
20.....\$5.50
Complete tee ensemble
—washer, tee stake,
towel, waste container,
tee data plate
Lewis Bag Rack and
other equipment.....
ORDER NOW.



G. B. LEWIS COMPANY Showing Portion
Dept. GD 134 Watertown, Wis. of Tee Ensemble

SPRINKLES 100 foot CIRCLE



- Spreads water evenly at any pressure.
- Speed of rotation controlled easily by thumb-screw on nozzle.
- Meet the LARK at the Pittsburgh Convention.

L. R. NELSON MFG. CO.

1726 S. WASHINGTON PEORIA, ILLINOIS

clude scrapers for ground rollers, and a detachable crab-grass rake to act in front of the blades.

With respect to prices, Perine reports: "Prices on all equipment will be the same as last year and we hope to continue them throughout the season, although we have taken the caution to note on our price sheets that they are subject to change without notice."

WORTHINGTON BALL TO PUSH "SWEET SHOT" IN '34.

Elyria, Ohio.—Worthington Ball Co. has developed for the 1934 pro trade a new thin-cover ball to retail for 75c, and claimed to possess all the improved features in the way of click, distance and accuracy that golfers demand. The ball will



be called the "Sweet Shot," will be obtainable by players only through pro-shops, and will be backed up with a generous advertising campaign.

The "Tommy Armour" ball, extensively sold during 1933, has been redesigned to incorporate all the latest developments in ball construction and will again lead the Worthington line as its 50c representative.

F. & N. ADDS 7-GANG "FLEET" TO 1934 LINE

Richmond, Ind.—For 1934, F. & N. Lawn Mower Co. is adding a 7-gang outfit, designed to cut a 16-foot swath, to its former 5- and 3-gang models, these latter cutting 12 and 7 ft. respectively. Another innovation will be an attachment, of special construction and sold only on request, which will lift the two outside mowers on the 5-gang outfit so it can be taken over narrow bridges, etc.

To assist in efficient maintenance, all F. & N. mowers will hereafter have demountable reels and cutter bars, so that these parts can be removed without tearing down the frame.

F. & N. will continue to back up its