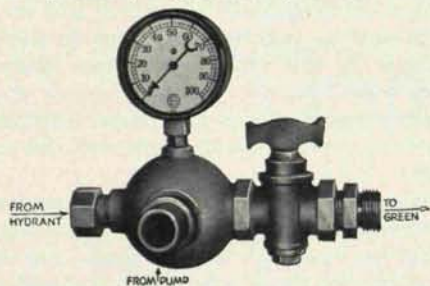


A slight change has been made in the name of Fungo to Fungol. This product, as you know, has been on the market



McCLAIN HYDRO-MIXER

several years for both the control and eradication of brown patch and soil vermin. The above product has been used very successfully in the last few years.

### MILORGANITE—Sewerage Commission Milwaukee, Wis.—Booth No. 13

**T**HAT golf clubs realize the importance of good fairways and greens turf, as a means of holding and attracting desirable player members, is evidenced by the fact that golf clubs used more Milorganite during 1932 than in any preceding year.

The present trend is towards feeding programs of several years duration. Greenkeepers and their chairmen recognize this as the only effective and economical method of improving, and then maintaining turf excellence.

From the very first the Milwaukee Sewerage Commission, manufacturers of Milorganite, recognized the necessity for authentic and trustworthy fertilizer usage, and have maintained a staff of trained and experienced soil and fertilizer specialists to help clubs devise rational feeding programs. Besides personal visits, where needed, our laboratories are equipped to make any chemical tests deemed essential. Our staff will gladly discuss individual fertilizer and general turf maintenance problems with those in attendance at the convention.

Representatives, including V. H. Kadish, Sales Manager; O. J. Noer, in charge of the Service Bureau; and S. P. Graham of the Sales Department, will be in constant attendance throughout the Convention in Booth 13.

### STANDARD MANUFACTURING CO. Cedar Falls, Iowa—Booth No. 18

**O**NE of the best lines of golf course equipment on the market is offered by this company and will be exhibited at the Greenkeepers' Show. This equipment includes Standard steel flagpoles, aluminum hole rims, hole cutters, tee markers, flags and aluminum signs for tees and fairways.

The flag poles are constructed from a special strong lightweight seamless tube, three-fourths inch in diameter, strongly reinforced at the bottom. This flag pole with the cast aluminum hole rim forms a splendid combination of golf greens and assures durability and long life.

### THE BUEL PERFORATOR Woburn, Massachusetts—Booth No. 51

**T**HE Buel Perforator which has been so successful on golf courses the past season will be exhibited by the above company at Chicago.

The makers claim that their Perforator perfects the putting surface, saves in labor, water, and topdressing and will eliminate a large percentage of brown patch and scald.

An ingenious arrangement of an iron-wheel carriage permits the operator to transport the Buel Perforator from one green to another without any complicated adjustments.

### McLAUGHLIN GORMLEY KING CO. Minneapolis, Minnesota—Booth No. 51

**T**HE feature of this exhibit will be Ever Green 20, a highly concentrated standardized pyrethrum plant insecticide, which kills both chewing and sucking insects.

On golf courses it has been particularly efficient in the control of the webworm which has been a pest in many parts of the country during the past two seasons.

The makers state that Ever Green 20 may be used on a basis of one ounce to eight gallons of water and that the cost is less than three-fourths of a cent per gallon of solution.

### BAYER-SEMESAN COMPANY Wilmington, Delaware—Booth No. 17

**A** BOOTH that will be of interest to every greenkeeper is that of the Bayer-Semesan Company. In this booth will be exhibited a continuous motion picture entitled "Golf Hazards." This film tells the story of how brown patch defeats the Green's chairman in a match with his young greenkeeper.

As a result a greenkeeper who has been very successful in preventing brown patch, is called in for advice. He describes the symptoms of the various types of brown patch. Each type



is illustrated by clear-cut pictures. A very unusual feature in the discussion on brown patch is the scene of Rhizoctonia fungus actually growing and producing its mycelium, the cobweb-like growth seen in the morning on dew-covered brown patch spots.

A simple program for preventing and controlling these diseases is outlined and the results of treating are illustrated. Interesting views of courses and some of the sporty greens are shown.

Booklets containing the detailed symptoms of the most important brown patch diseases will be distributed at the booth. There will also be some one attending the booth, No. 17, who will be well qualified to answer the greenkeepers' questions regarding preventing and controlling the brown patch diseases with Semesan and Nu-Green.

### THE C. B. DOLGE COMPANY Westport, Conn.—Booth No. 49

**T**HIS company will have a back drop showing a cross section of a green and the use of various Dolge products on the green.

Among the new items which will be displayed, that is, those that they did not have on display last year, will be Dolco No-mole—a mole killer which has been found to be particularly effective and is extremely easy to apply; also Dolge Alta-Co in small-sized bottles for use in athlete's foot prevention and treatment and which is being handled for resale purposes in golf clubs by the pros more and more.

Alta-Co is also effective in immediately relieving ivy poison-



ing and because of this reason has met with favor with the greenkeepers. For use in the clubhouse rest and toilet rooms there will be on display the new Pervasif and Diffuser, the



DOLGE DEMOUNTABLE SPRAY BARREL

Pervasif acting as a deodorant with an extremely pleasant aroma, the Diffuser being an attractive container in four pastel shades to match the fittings of any room of this nature.

## THE WORTHINGTON MOWER CO.

Stroudsburg, Pennsylvania—Booth No. 36

**T**HE Worthington Mower Company has the reputation of giving continual attention under expert advice to the subject of increasing the efficiency of mowing equipment. Its exhibit this year seems to confirm this, as it will consist of models of their machinery that embody entirely new and important features particularly designed for special, specific service.

As an example the Worthington "Parkover" will be shown for the first time. It has many novel features. One consists of means for raising the mowing units bodily from the ground to the tractor. These units are placed within easy reach for adjustment, as they do not extend under the tractor frame. This accessibility will be recognized as a most important feature.

More than ten years ago the Worthington Mower company patented and built a tractor and mower for park service, having unit-lifting means but at that early date little call existed for a machine of this kind. At present, however, the requirements of the immense park systems throughout the country have brought to the attention of the park commissions everywhere, the desirability of such an apparatus. This machine is equally applicable to golf course maintenance and deserves examination by Green committees and greenkeepers alike.

The well-known Worthington policy of using only light machines on lawns or golf courses is exemplified in their patented lawn tractor. This is claimed to be the lightest, the quickest, the most flexible and most economical tractor of equal horse power, ever employed for golf course or lawn mowing. It has become standard on the most famous golf courses of the country.

The Convertible "Multigang" of seven units cuts a swath sixteen feet wide and mows an acre of grass in less than four minutes. This combination can be instantly changed from a seven-unit gang to a five-unit standard "Quintuplex," or a three-unit "Triple," or a one-unit "Sulky!" Its patented hinged frame permits this machine to be converted in this amazing fashion, practically without any loss of time whatsoever. The remarkable simplicity in design and excellence of workmanship and material of the Worthington standard cutting units, whether for lawn, fairway or putting green mowing have long ago made them famous the world over.

The 1933 Scout Overgreen power putting green mower has undergone some slight changes. The increasing popularity of this machine indicates how indispensable it has become to golf

courses for the present-day economical maintenance of the greens. Its three putting green mowers may be removed in a moment's time and three other substituted that are especially equipped for mowing tees and approaches or confined areas anywhere about the club house or grounds. Many new uses have been discovered for the Overgreen tractor of particular interest to greenkeepers. A new spike disk especially adapted for use on putting greens in combination with this tractor will be exhibited.

The Worthington "Scout" hand mower possesses patented details of construction which increase its effectiveness beyond anything that has heretofore been attained. The new device (patent pending) for the adjustment of the height of cut, is of the simplest construction. This adjustment is made through the use of the fingers alone, without recourse to any tools. The "Scout" is very light but strongly constructed, and cuts a swath of incomparable smoothness. It is these hand "Scout" units that are used on the "Scout" Overgreen with such remarkable results.

The three-section Worthington spike disk which is exhibited fills a most important requirement in modern golf course maintenance and practice. It spikes a path six feet wide and will completely disk and aerate an average 18-hole golf course in less than sixteen hours. For travel over roads, permanently attached carrier wheels lift the spiker clear of the ground. Many authorities agree that disking the fairways with a Worthington disk will improve the quality of the turf to an astonishing degree.

## AMERICAN CYANAMID & CHEMICAL CORPORATION

New York City—Booth No. 52

**T**HIS company will have a good exhibit of their two turf fungicides—Barbak-211 and Barbak-XX.

Barbak-211, is a fungicide with fertilizing qualities which was on the market last year and extensively sold and used by golf courses all over the country. Barbak-XX is a turf disinfectant for control of brown patch containing no fertilizer but with mercury content approximately double that of Barbak-211.

The exhibit will be in charge of Mr. B. C. Culver, who is very well known to greenkeepers, particularly in the Chicago territory.

## MALLINCKRODT CHEMICAL WORKS

St. Louis, Missouri—Booth No. 19

**M**ALLINCKRODT Chemical Works, the manufacturers of this well-known brown patch remedy, Calo-Clor, as well as Calogreen and Corrosive Sublimate, will be on hand to explain



the value of these preparations for brown patch, earthworm and snow mold control.

Interesting data will be available to show the economy and effectiveness of these inorganic fungicides based on experiments and experiences of greenkeepers in different parts of the country.



# Cleveland Greenkeepers Hold Fine Meetings

By FRANK W. ERMER, *President*

**T**HE January meeting of the Cleveland District Association of Greenkeepers was held at the Hollenden Hotel, Cleveland, on Monday, January 9th. Although the weather was bad there were twenty-eight members present.

It has been the Association's desire to make these winter meetings as educational as possible, therefore the executive committee has worked out a plan to have a speaker on various subjects at each meeting, these subjects to cover lectures on chemistry, soils and fertilizers, trees and shrubs, equipment and gas engines.

At the December meeting we were fortunate to have with us Prof. J. Renschler, a practicing chemist, who outlined the study of chemistry in what you would call plain English. Prof. Renschler has made an extensive study of brown patch in the past two years and brought out many good points on this disease. (Whether Prof. Renschler knows his onions or not, I could not say, but I do know as I guess the boys will agree with me that he does know his "chemistry.")

Now to go back to the January meeting, we had with us Mr. Homer L. Jacobs of the Davey Tree Expert Co., as our main speaker, who covered trees of every description and their care. Mr. Jacobs had with him about fifty photo slides of trees that he had taken from time to time on the right and wrong way of pruning, planting and care of trees in general, which he explained in detail.

A very lengthy discussion followed along the same line,



M. E. FARNHAM

*Superintendent of grounds of the Philadelphia Country Club, who, due to serious illness in Alex Pirie's family, will "pinch hit" for him in delivering his address on "Departmental Cooperation" at the Chicago Educational Greenkeeper's Conference.*

nearly everyone present having one or more questions to ask Mr. Jacobs concerning trees on their own courses, which Mr. Jacobs answered in a very satisfactory way to all concerned.

The regular monthly business meeting followed directly after this lecture. Two new members were taken in by the Association, namely Mr. D. Boyd, who recently came to Cleveland and now located at the Portage Country Club, Akron, Ohio, and Mr. Walter Reed, whom most of the boys know without introduction. Mr. John Morley was made an honorary member for life to partly repay the good deeds he has done for the Association in the past.

The February meeting will be held at the Hotel Hollenden at which time Dr. Salter, who is connected with the Agricultural Experiment Station at Wooster, Ohio, will speak on soils and fertilizers.

Mr. Burkhardt, chairman of the show committee of the N. A. G. A., gave an outline on how good things looked for the coming convention and most of the boys present gave their pledge to be present at the Hotel Sherman the last week in January.

## Reduced Fares to Chicago

**I**T is Convention and Show time again and the favorite slogan of our greenkeepers is, "On To Chicago."

When you buy your going ticket, ask for a reduced fare convention certificate, explaining to the railway ticket agent that you are going to Chicago to attend the National Greenkeepers' Convention. If your wife is going with you, be sure to secure a certificate for her too.

Your certificate must be endorsed and validated at Chicago so that when you buy your return railway ticket, by presenting the validated certificate you will only be required to pay one half of the regular one way fare.

## Rutgers Announces Greenkeepers Course

**T**HE College of Agriculture of Rutgers University, New Brunswick, N. J. announces its fifth annual short course in turf management, February 20-24, 1933. Advanced courses are also scheduled from February 27 to March 3.

Tuition is free, but a charge of ten dollars is made for registration. Those who desire to enter should file their applications with F. G. Helyar, Director of Resident Instruction, Rutgers University, New Brunswick, N. J.

The program covers every phase of turf culture and deals with soils and soil chemistry, composts, seed testing, fertilization and turf diseases.

## McPherson Joins Lawn Equipment

Mr. Alex McPherson, a charter member of the National Association of Greenkeepers of America, is retiring from the greenkeeping profession and joining with the Lawn Equipment Corp. of Detroit, Mich.



# Market Place and Buyers' Guide

Where reputable manufacturers and dealers list and describe their products. Greenkeepers are requested to write the Market Place for any special information they desire about supplies or equipment.

## Airport Drainage

Armco Culvert Mfrs. Association  
Wendell P. Miller and Associates

## Ant Control

Royal Products Company

## Ball Washers

J. Oliver Johnson, Inc.  
Worthington Mower Company  
Ideal Power Lawn Mower Co.  
G. B. Lewis Company

## Ball Locators

Worthington Mower Company

## Bent-Coos County State Sealed and Certified

J. M. McCullough's Sons Company  
Seaside Bent Company

## Bent Seed—Cocoos Creeping

Stumpp & Walter Company

## Bent Seed—Prince Edward Island

J. M. McCullough's Sons Co.

## Bent Stolons

Hubbard Nurseries  
O. M. Scott & Sons Co.  
Stumpp & Walter Co.  
Ohio Humus Products Co.  
Illinois Grass Co.  
Hiram F. Godwin  
Lyman Carrier

## Bluegrass—Seed

J. G. Peppard Seed Company

## Brown Patch Control

Stumpp & Walter Co.  
J. Oliver Johnson, Inc.  
Arthur D. Peterson  
American Cyanamid Sales Co.  
C. B. Dolge Company  
McClain Bros. Co.  
Arthur Boggs & Co.

## Charcoal

Cleveland Charcoal Supply Company  
Wood Charcoal Research Bureau

## Cocoos

Lyman Carrier  
Stumpp & Walter Company

## Compost Distributor

Toro Mfg. Company  
The Root Mfg. Co.

## Compost Mixer

Toro Mfg. Company  
Royer Foundry & Machine Co.  
Beardsley & Piper Company  
Silver Mfg. Company  
Kemp Mfg. Company

## Compost Screen

Silver Mfg. Company

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## Fairway Mower Blades

The Budd Mfg. Company

## Fairway Mowers

Pennsylvania Lawn Mower Works  
Toro Mfg. Company  
E. G. Staude Mak-A-Tractor Co.  
Ideal Power Lawn Mower Company  
Worthington Mower Company  
The F. & N. Lawn Mower Co.  
National Mower Company

## Fairway Tractors

International Harvester Co. of America

## Fertilizers

Milwaukee Sewerage Commission  
J. Oliver Johnson, Inc.  
Peter Henderson & Co.  
Nitrate Agencies Co.  
Atkins & Durbrow, Inc.  
Arthur D. Peterson  
American Cyanamid and Chemical Corp.  
Lyman Carrier Company  
Bayer-Semesan Company  
Synthetic Nitrogen Products  
Wayside Gardens Company  
Armour Fertilizer Works  
Cobwell Reduction Co.  
Garden Supply Company

## Fertilizer Distributors

International Harvester Co. of America  
Synthetic Nitrogen Products Corp.  
The Root Mfg. Co.

## Flag Poles

Ideal Power Lawn Mower Company  
Standard Mfg. Company

## Flexible Steel Mats

J. Oliver Johnson, Inc.

## Fungicides

Bayer-Semesan Company, Inc.  
Sherwin-Williams Company

## Fairway Rollers

Toro Mfg. Company  
Philadelphia Toro Company  
Worthington Mower Company

## Golf Architecture

Charles Evans, Jr., and Associates

## Golf Course Construction

Ohio Humus Products Co.

## Golf Equipment

Stumpp & Walter Co.  
Peter Henderson & Co.  
Arthur D. Peterson  
Ideal Power Lawn Mower Company  
Lawn Equipment Corp.  
T. W. Wood and Sons  
Worthington Mower Company

## Cultivators (Disc)

John H. Graham & Co., Inc.

## Cultivators (Spike)

John H. Graham & Co., Inc.

## Drainage Engineers

Wendell P. Miller and Associates

## Dump Carts

Toro Mfg. Company  
J. Oliver Johnson, Inc.  
Worthington Mower Company  
Peter Henderson & Co.  
Ideal Power Lawn Mower Co.

## Fairway Fertilizers

Synthetic Nitrogen Products Corp.  
Armour Fertilizer Works

## Fairway Irrigation

Buckner Mfg. Co.  
Campbell Irrigation Company  
Economy Irrigation Company  
L. R. Nelson Mfg. Company  
Double Rotary Sprinkler Co.



**Golf Flags**

Ideal Power Lawn Mower Company  
Stumpp & Walter Company  
Peter Henderson & Co.  
Arthur D. Peterson  
Philadelphia Toro Company

**Grass Seeder**

The Root Mfg. Co.

**Greens Fertilizers**

Armour Fertilizer Works  
Synthetic Nitrogen Products Corp.

**Greens Sprinklers**

L. R. Nelson Mfg. Co.  
Buckner Mfg. Co.  
Double Rotary Sprinkler Co.  
Dan F. Ryan

**Hand Mower Blades**

Budd Mfg. Company

**Hole Cups**

Standard Mfg. Company

**Hole Cutters**

Ideal Power Lawn Mower Company  
Lawn Equipment Corp.  
Standard Mfg. Company

**Hole Liners**

Chilton Crocker Company

**Hole Rims**

Ideal Power Lawn Mower Co.  
Arthur D. Peterson

**Horse Drawn Mowers**

Pennsylvania Lawn Mower Works  
International Harvester Co. of America  
Worthington Mower Company  
Ideal Power Lawn Mower Co.  
Roseman Tractor Mower Co.

**Hose**

Peter Henderson & Co.  
Arthur D. Peterson

**Humus**

Hyper-Humus Company  
Ohio Humus Products Co.  
Peter Henderson & Co.  
Atkins & Durbrow, Inc.  
Garden Supply Company

**Insecticides and Fungicides**

American Cyanamid and Chemical Corp.  
Sherwin-Williams Company  
Bayer-Semesan Company  
Arthur Boggs & Co.

**Iron Pipe**

McWane Cast Iron Pipe Co.

**Lawn Mowers**

Pennsylvania Lawn Mower Works  
Toro Manufacturing Company  
Worthington Mower Company  
Ideal Power Lawn Mower Co.  
The F. & N. Lawn Mower Co.  
Jacobsen Manufacturing Company

**Lime Spreaders**

International Harvester Co. of America

**Mower Blades**

The Budd Mfg. Co.

**Mowing Equipment**

E. G. Staude Mak-A-Tractor Co.  
Toro Mfg. Company  
Pennsylvania Lawn Mower Works  
Ideal Power Lawn Mower Co.  
Worthington Mower Company  
Arthur D. Peterson  
International Harvester Co. of America  
Roseman Tractor Mower Co.  
The F. & N. Lawn Mower Co.  
Jacobsen Mfg. Company  
National Mower Company  
Philadelphia Toro Company

**Motor Trucks**

International Harvester Co. of America

**Mower Sharpeners**

Fate-Root-Heath Company  
Toro Manufacturing Company  
Henry H. Doty  
Palmer-Bee Company

**Nitrophoska**

Synthetic Nitrogen Products Corp.

**Peat Moss**

Atkins & Durbrow, Inc.  
Richard Gerstell

**Perforator**

Philadelphia Toro Company  
J. F. Buel

**Poa Annua**

J. M. McCullough's Sons Co.

**Power Mowers**

Cooper Mfg. Company  
Toro Manufacturing Company  
Worthington Mower Company  
International Harvester Co. of America  
Jacobsen Mfg. Company  
Ideal Power Lawn Mower Company

**Putting Cup Illuminators**

Chilton Crocker Company

**Putting Green Mowers**

Toro Mfg. Company  
Pennsylvania Lawn Mower Works  
Worthington Mower Company  
Cooper Mfg. Company  
Ideal Power Lawn Mower Co.  
Roseman Tractor Mower Co.  
The F. & N. Lawn Mower Co.  
Jacobsen Mfg. Company

**Power Putting Green Mowers**

Jacobsen Mfg. Company  
Worthington Mower Company  
Ideal Power Lawn Mower Co.

**Rakes**

Pennsylvania Lawn Mower Works

**Rhode Island Bent Seed**

A. N. Peckham

**Rollers (Hand)**

John H. Graham & Co., Inc.  
Stumpp & Walter Company

**Rollers (Fairway)**

John H. Graham & Co., Inc.  
Toro Mfg. Company  
Worthington Mower Company

**Rollers**

Stumpp & Walter Company  
Toro Mfg. Company  
Worthington Mower Company

**Rough Mowers**

Toro Manufacturing Company  
Pennsylvania Lawn Mower Works  
Worthington Mower Company  
Ideal Power Lawn Mower Co.  
Roseman Tractor Mower Co.  
Jacobsen Mfg. Company  
Philadelphia Toro Company  
International Harvester Co. of America  
Gravely Mower & Cultivator Co.

**Seaside Bent**

Seaside Bent Company

**Wheel Spuds**

Quickest to put on and take off. Double traction. Durable and low priced.

All sizes for all purposes. Samples and circulars sent free on request. Advise make of tractor and purpose intended.

If your Ford or equipment dealer cannot supply, write direct.

Immediate shipment. **Prices Reduced.**

Golf wheels and all Fordson Tractor parts in stock, new and used.

**R. S. HORNER**

Manufacturer  
GENEVA OHIO

**Seed**

Henry A. Dreer  
O. M. Scott & Sons Co.  
J. Oliver Johnson, Inc.  
Stumpp & Walter Co.  
A. N. Peckham  
Peter Henderson & Co.  
J. M. McCullough's Sons Co.  
Illinois Grass Co.  
Arthur D. Peterson  
Henry A. Dreer  
Philadelphia Seed Co.  
Seaside Bent Company  
Lyman Carrier

**Signs**

Standard Mfg. Company

**Sod Cutters**

J. Oliver Johnson, Inc.  
Pacific Greenkeepers' Appliance Co.

**Sprayers**

Hardie Mfg. Company  
Friend Mfg. Company

**Sprinklers**

L. R. Nelson Mfg. Company  
Buckner Mfg. Company  
Economy Irrigation Company  
Campbell Irrigation Company  
Double Rotary Sprinkler Co.  
Dan F. Ryan

**Spuds**

Diamond-Calk Horseshoe Company

**Stolons**

O. M. Scott & Sons Co.  
Hubbard Nurseries  
Lyman Carrier

**Sulphate of Ammonia**

Synthetic Nitrogen Products Corp.

**Tee Markers**

Standard Mfg. Company

**Tee Mowers**

Toro Manufacturing Company  
Pennsylvania Lawn Mower Works  
Worthington Mower Co.  
Ideal Power Lawn Mower Co.  
Jacobsen Mfg. Company

**Tee Stands**

Worthington Mower Co.

**Tillage Implements**

International Harvester Co. of America



## Market Place and Buyers' Guide---

### Top Dressing

Hyper-Humus Company  
The Ohio Humus Company  
Atkins and Durbrow, Inc.

### Tractors

E. G. Staude Mak-A-Tractor Co.  
Toro Manufacturing Company  
Worthington Mower Co.  
International Harvester Co. of America  
Ideal Power Lawn Mower Co.  
Roseman Tractor Mower Co.  
R. S. Horner  
Gravely Mower & Cultivator Co.

### Tractor Wheels and Spuds

R. S. Horner

### Trees

Blue Ridge Evergreen Supply Co.

### Turf Fertilizers

Armour Fertilizer Works

### Urea

Synthetic Nitrogen Products Corp.

### Water Pipe

McWane Cast Iron Pipe Co.

### Wood Charcoal

Wood Charcoal Research Bureau

### Worm Eradicators

Peter Henderson & Co.  
C. B. Dolge Company  
Reade Mfg. Company

**Hyper-VELVET<sup>-bent</sup>**  
94% Pure - Germ. 88%  
**SEED**  
"ten million to the pound"  
**HYPER-HUMUS CO. of NEWTON, N.J.**  
*Write us for Name of Nearest Dealer*

## Wood Charcoal for Greens

**I**MPACTED turf and its attendant ills seem about to yield to a new aid simple remedy . . . wood charcoal!

Experiments and tests conducted by the Wood Charcoal Research Bureau, Jacksonville, Florida, during the last year with wood charcoal ground to a coarseness of heavy sand, have demonstrated that this new material has a surprising rejuvenating effect on packed sod. The material is designated as No. 36 Wood Charcoal.

Favorable properties of wood charcoal as a conditioner of golf turf is its tendency to work down into the soil almost as soon as applied and its quality of absorbing considerable amounts of water without swelling or breaking down, returning it to the soil as needed moisture.

The tests were made on various types of soil and grasses on lawns and golf greens. They showed that No. 36 Wood Charcoal has a decided aerating value and that it exercises a retarding action on the growth of fungus and harmful bacteria. Turf treated with No. 36 Wood Charcoal soon feels live and springy underfoot.

Since this wood charcoal does not rot, will not dust and cannot soil shoes or clothing, its sponsors believe that they have discovered not only a new remedy for certain turf ills, but also a new economy for budget-bound greenkeepers.



will keep new-cut Greens free of ant hills and worms and not injure turf.  
Trial order to make fifty gallons.

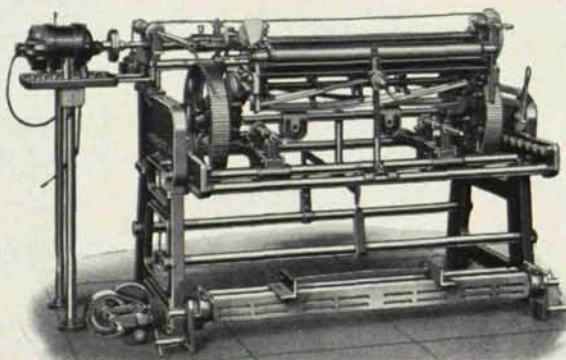
**\$7.00 delivered or buy  
it of your dealer**

*Satisfaction or Money Refunded*

**The Royal Products Co.**  
214-216 S. Charles Street  
**BALTIMORE - MARYLAND, U. S. A.**

## New Peerless Mower Sharpener

**T**HE Fate-Root-Heath Co., Plymouth, Ohio, have recently added a new, lower-priced mower sharpener to their otherwise complete line of Peerless and Ideal sharpeners. This is known as the Peerless Junior. In spite of its lower price, the same high standards of material and workmanship inherent in all Peerless machines have been maintained.



1933 MODEL PEERLESS MOWER SHARPENER

The Peerless Junior sharpener grinds all makes of power mowers and tractor units with blades up to 36-inches wide without removing the mower wheels, as well as putting green and hand lawnmowers. It retains the well-known Peerless principle of grinding the reel knives with the proper clearance or bevel, and also makes a perfect contact with the straight blade even if the latter is bent or sprung. It embodies many improvements never before found on a mower sharpener.

A new automatic weight-feed moves the grinding head along the main shaft, from left to right, at exactly the correct speed required for grinding each knife. All reel knives are ground exactly alike, with amazing speed and accuracy. When sharpened with this weight-feed thin paper can be cut at any point and with every blade of the reel.

The Peerless Junior sharpener is also equipped with a Reconditioner—a device for revolving the reel knives backward while they are "lapped in" with emery paste. This method is used as the finishing process on putting green mowers and on other mowers with thin blades.

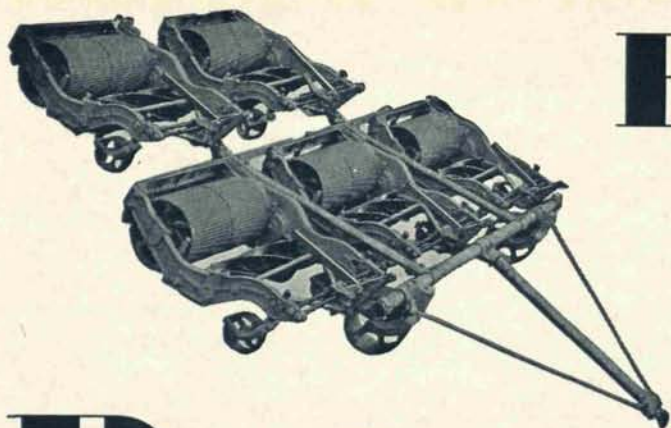
### PEERLESS FURNISHES GRINDING WHEEL

**O**N MOST mowers it is not necessary to grind the straight blade or cutter bar, but when it is badly worn and "wavy" or uneven there is only one way to sharpen it—on a grinding wheel. For this purpose the Peerless Junior is equipped with a heavy attachment bar which holds the straight blade so that both the face and the edge can be ground quickly and accurately in one setting by rotating the bar. A special 8-inch grinding wheel on the end of the main shaft is also furnished for grinding grass and hedge shears, sickles, scythes and other edge tools.

Simplicity of operation is another Peerless Junior advantage. After placing the mower in the machine, only a few simple adjustments are required to prepare for grinding.

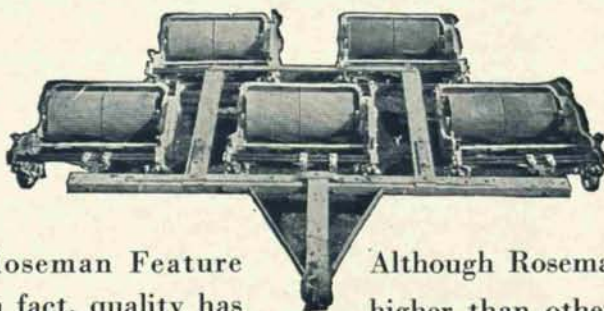
For more than thirty years, the Fate-Root-Heath Company have been building lawn mower sharpeners. During this time they have had a real opportunity to study the requirements of various users. Into the new Peerless Junior has gone their entire knowledge of sharpener requirements to make it the most complete, up-to-the-minute machine they have had the pleasure to build at its remarkably low price.





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