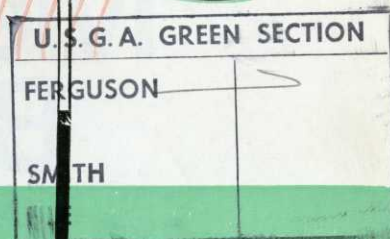


MAY-JUNE
1968 1/-

The British Golf

Greenkeeper



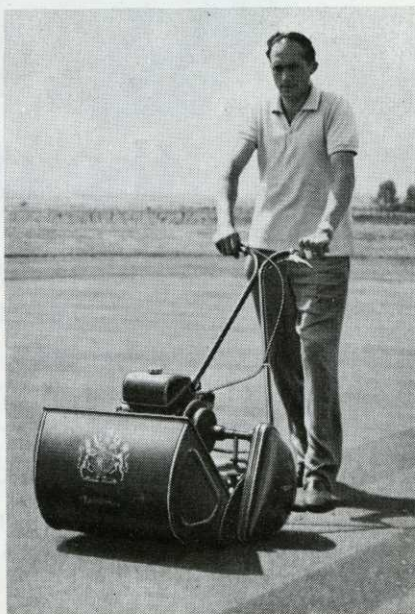
Leaders
in design,
quality, and
performance.
British-made
mowers for
British
conditions

STANDARDISE
MECHANISE
ECONOMISE
BUY BRITISH—
BY RANSOMES!

RANSOMES 18in. AUTO-CERTES. For perfect greens grooming—always under perfect control—Britain's most renowned greens mower. Ten NEW super-tough impact-resistant high speed knives, together with extra-thin bottom blade, combine to give the closest possible cut—faster! Power-driven transport wheels for rapid site-to-site movement.

Ask your Ransomes Area Sales and Service Distributor for a demonstration or write to:—

RANSOMES SIMS & JEFFERIES LTD., IPSWICH.



RANSOMES

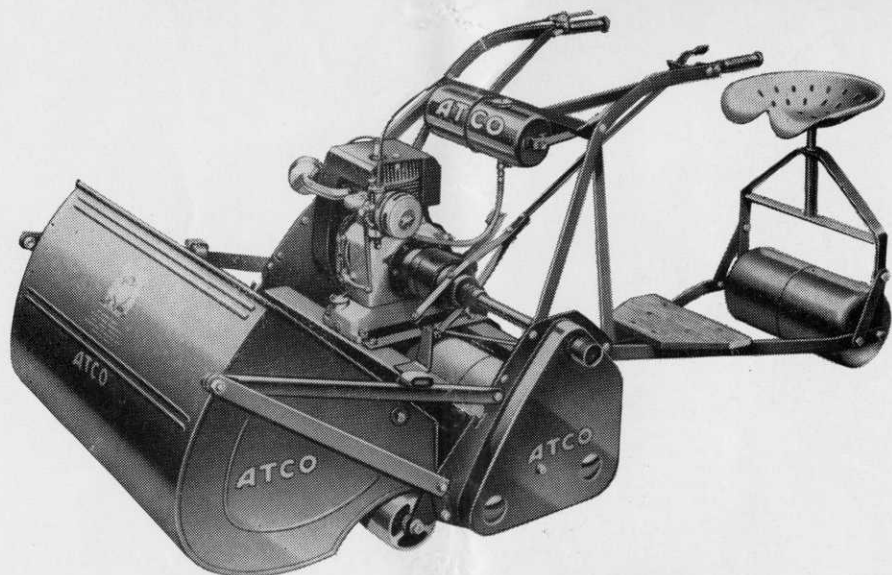
Tel. 473 72222

Telex No. 98174



By Appointment to Her Majesty the Queen
Charles H. Pugh Ltd.
Motor Mower Manufacturers

Meet the best BIG Mowers in the business



... the **ATCO 28"** and **34"**

BIG value for money — BIG cutting capacity and a BIG future in front of it — that's what you get with the 28" or 34" Atco (available with or without trailer seat). Atco's knowledge of the problems involved in cutting large areas of grass is used to the full in the design and construction of these robust machines. And all through the long life of an Atco, it's comforting to know that the unique Atco service organisation is on hand to advise and help with all your grass cutting problems.

Let **ATCO**
work for you!

The best way to judge a mower's capabilities is to see it at work on your own turf. We will gladly arrange a demonstration of this or any other Atco at a time to suit your convenience. *If you prefer, free literature is available on request from*

CHARLES H. PUGH LTD., P.O. Box No. 256, ATCO WORKS, TILTON RD., BIRMINGHAM 9

GREENKEEPER

HON. EDITOR: F. W. HAWTREE



FOUNDED 1912

PUBLISHED MONTHLY FOR THE BENEFIT OF GREENKEEPERS, GREENKEEPING AND THE GAME OF GOLF BY THE BRITISH GOLF GREENKEEPERS ASSOCIATION

President:

CARL BRETHERTON

Vice-Presidents:

SIR WILLIAM CARR
R. B. DAWSON, O.B.E., M.S.C
F.L.S.
GORDON WRIGHT
F. W. HAWTREE
S. NORGATE
I. G. NICHOLLS
F. V. SOUTHGATE
P. HAZELL
W. KINSEY

Chairman:

C. A. MOORE
19 Vernon Drive
Stanmore, Middlesex

Vice-Chairman:

G. HERRINGTON

Hon. Secretary & Treasurer:

C. H. DIX
Addington Court G.C.
Featherbed Lane
Addington, Croydon, Surrey
CRO 9AA

Executive Committee:

Carl Bretherton (President)
G. Herrington, C. Campion,
R. Goodwin, S. T. McNeice,
J. Parker, J. Simpson,
A. A. Cockfield, H. M. Walsh,
E. W. Folkes, D. G. Lord

Hon. Auditors:

MESSRS. SMALLFIELD RAWLINS AND
Co., Candlewick House, 116/126
Cannon Street, London, E.C.4

Hon. Solicitor:

R. A. BECK
21 Lime Street, London, E.C.3

The Association is affiliated to the English and Welsh Golf Unions.

No. 278 New Series

MAY-JUNE 1968

WINDJAMMER

*While lofting a shot
To a suitable spot,
There blew a tremendous updraft;
When suddenly learning
My ball was returning,
Instead of "fore", I yelled "aft"!*

—SIDNEY BRODY

MAY-JUNE

CONTENTS

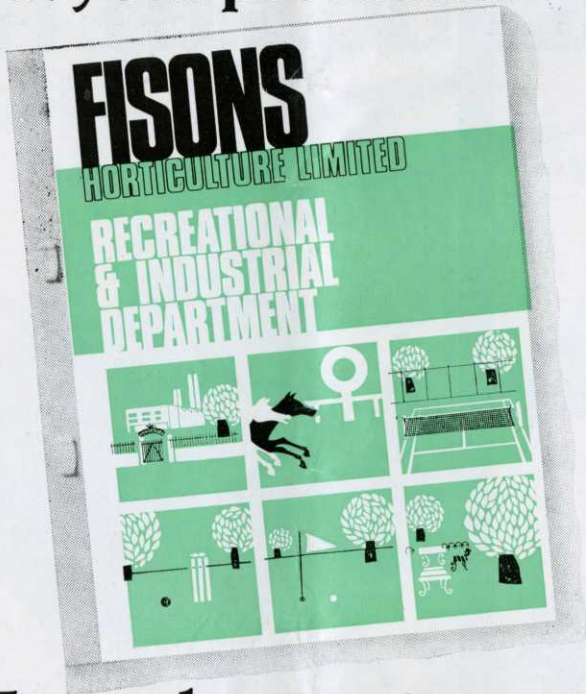
Page 3	TEE SHOTS
4	EARTHWORM CONTROL
6	GRUBBING BUNKERS
6	SITUATIONS VACANT, ETC.
7	SPECIAL OCCASIONS
8	EDITOR MOWING
13	TREAD CAREFULLY, STRANGER
14	EIGHTEEN HOLES WITH HAWTREE No. 2
17	SPORTS TURF RESEARCH INSTITUTE A.G.M. REPORT
18	NEWS FROM THE SECTIONS
20	MRS GREENKEEPER

EDITORIAL AND ADVERTISEMENT OFFICES: Addington Court Golf Club, Featherbed Lane, Addington, Croydon, Surrey. Telephone: 01-657 0281. SUBSCRIPTION RATE: 15/6 for 12 issues post paid. Published during the first week of each month. LATEST COPY DATE: 8th of month prior to insertion. All rights reserved. Reproduction of original articles and photographs in whole or in part is prohibited. This Magazine shall not, without the written consent of the publishers first given, be re-sold, lent, hired out, or otherwise disposed of. Contributions and photographs of interest are invited.

TO INSERT A CLASSIFIED ADVERTISEMENT, write to the Advertisement Manager at the above address. The rate is 6d. per word (minimum 15 words). Remittance must be sent with order. Please state number of insertions required and write advertisement in block letters. Advertisements will be inserted in the first available issue.

**Weeds? Worms? Drought?
Mud? Moss? Panning? Wear
and tear?**

**You could write a book
about your problems.**



**Fisons have written one
about some of the answers.**

We hope you have got it; if not, write to Fisons Horticulture Limited, Recreational and Industrial Department; Harvest House, Ipswich. (Ipswich 56721).

If your problem is not in the book, we'll be happy to send one of our specialists to see you – it's all part of the Fisons free advisory service.

TEE SHOTS



by the Editor

Municipal Round-up

Players on Harborne Church Farm, one of Birmingham's 9-hole municipal courses, are having restless rounds. Some years back one of the councillors had a big scheme to turn it into a floodlit driving range. After an all-out campaign by the club and local residents this was quashed. Now one of the committees is thinking of re-zoning it as building land coupled with plans for a new 18 holes in the Woodcote Valley. So another campaign has been launched and at least a temporary respite has been granted already.

* * * *

Sherdley Hall Farm has been chosen as the site for St Helens' new 18-hole municipal golf course. It adjoins Sherdley Park where a pitch-and-putt course is already doing good business.

* * * *

Work has started on Brentwood Municipal's extension from nine to 18 holes. Mr E. W. Hunt, the parks superintendent, is in charge and, judging by progress in the first few weeks, will be well ahead of schedule when he sows later this year.

* * * *

Rotherham Parks Department has also begun the new 18-hole municipal golf course in Grange Park. This is an attractive site close to the centre and more rural than could be believed possible with heavy industry all around.

**everything
for the Golf
Course**

Turf cutting machines. Flagstaffs and Flags. Hose reels. Tee Mats. Mud brushes. Drag brushes. Sprinklers. Gang rollers. Harrows. Line Markers. Tools. Machines of all types for everything concerned with Golf courses.

Send for catalogue.

PATTISSON

H. PATTISSON & CO. LTD. STANMORE MIDDLESEX
Telephone: 01-954 4171

EARTHWORM CONTROL

by R. H. Wharton

An important distinction

Worm control and wormkilling are not synonymous though in the minds of many people a clear distinction between the two is not drawn. Controlling earthworm activity by wormkilling normally becomes necessary only when worm control through management has not been satisfactory. On new turf areas wormkilling may be an entirely reasonable approach but on established grounds general maintenance of the turf should be so directed as to keep out earthworms thus making wormkilling operations unnecessary.

Wormkilling — the lesser problem?

In some ways wormkilling is simpler than worm control. It is a reasonably straightforward business for many people with turf areas although the question of possible toxicity to humans and animals has to be taken into account. The two most popular materials are probably Chlordane and lead arsenate but occasionally either material can produce disappointing results. Chlordane has advanced in popularity in recent years, it being quite quick acting and reasonably long lasting while the material is usually quite convenient of application. The price per unit area tends to be lower than that with lead arsenate. Some of the few disappointments with Chlordane have perhaps stemmed from the material adhering to grass foliage and being mown off before being effectively washed into the soil. Chlordane is often applied as a liquid formulation but a dry formulation is also available and this may be particularly useful on some occasions.

Lead arsenate, of course, has been established as a useful material for many years and since it is usually quite long lasting, economics are sometimes in its favour despite its initial high price. Because of its high price and the occasional failure experienced it is advisable to carry out small trials in

the first instance and not embark on large expenditure before the results of the trials are known.

There are quite a few other materials used for worm control, e.g., Derris Dust, Mowrah Meal, etc. and, of course, there is the new material, Sevin (carbaryl) which does not seem to persist very long in the soil.

Because of cost, wormkilling operations are frequently restricted to the relatively small areas of greens, approaches and tees, although with the increasing demand for better facilities more and more clubs are finding it possible to treat their fairways when necessary.

Proper maintenance the first consideration

It is surprising how often maintenance techniques which are quite well known for encouraging earthworms are nevertheless persisted in. Particularly for those clubs who are short of money more attention to this aspect of the problem is well worth while.

Many tees are mown without the box on the mower and spreading the cuttings like this produces decomposing organic matter which encourages earthworm activity. Excessive use of decomposable organic materials of any kind is also liable to encourage earthworms, e.g., organic fertilisers and dried sewage, etc. Dried sewage frequently contains quite a lot of lime and lime applications (though sometimes essential) are known to favour earthworms.

Correct management practice in all its aspects should be aimed at producing a strong, hard-wearing turf and this in itself is often the best protection against a lot of the troubles which afflict us.

Fairway improvement

In the last few years much more attention has been given to fairways

(Continued on page 12)



CANNOCK

GREENEX

FERTILISER

Cardiff Arms Park, where the turf is kept to perfection with Greenex.

**THE MOST
IMPRESSIVE
SPRING AND
SUMMER
DRESSING
YET OFFERED**

Greenex is designed to meet the exacting demands of greenkeepers and groundsmen for the ideal Spring-Summer fertiliser. It is an economical, high-nitrogen fertiliser which not only gives an immediate response when applied, but goes on providing nitrogen to the grass through the growing season, keeping the sward green and luxuriant continually for many months.

Four different kinds of nitrogen are incorporated into Greenex, which give a quick, followed by a medium, then a slow-acting and prolonged feed.

It is specially designed without phosphates, and so will not encourage clover. Where Greenex is used in Spring or Summer, **Cannock Winter Feed**, with its high proportion of phosphates, provides the perfect balance for Autumn and Winter months.

Big savings on bulk purchase. Please send for the 14th edition of "Green Keeping" containing full details of all Cannock laboratory-tested fertilisers and grass seeds, and price list.

THE CANNOCK AGRICULTURAL COMPANY LIMITED, CANNOCK, STAFFS.

Fertiliser Manufacturers and Lawn Seed Specialists since 1861.



GRUBBING BUNKERS

by S. J. PAUL

Head Greenkeeper, Belvoir Park Golf Club, Belfast

IN the past, most greenkeepers and their staff have had the laborious task of keeping bunkers in order by grubbing them by hand. This job is usually done by using draw-back grubbers, a back-aching job taking up a lot of time.

I find that when a man starts in the morning to grub bunkers he does the first few well, but as the day goes on, the work being so laborious, the last few bunkers are not done so well. The result is that before long the whole operation has to start again.

I would like to pass on a tip which saves both time and our backs.

Machines are doing more and more jobs on the course and I can recommend another one called The Rotavator. As you know this machine has been used for years by market gardeners and horticulturists.

There are several types but the one I prefer has its rotavating tines on an extended arm at the front. This type is called the Versatiller Mk. IV. When in use one can grub a bunker in a matter of minutes, and the extended arm enables the operator to do the banks of the bunker with ease. The machine is small and light and can be pulled from bunker to bunker as easily as a caddy car.

If the operation is properly organised two men can comfortably grub and level off with a rake all the bunkers on an 18-hole course in two days. Those who are plagued with weeds in their bunkers will find that regular use of this machine will keep them at bay.

The saving of time and labour makes the Versatiller a good investment for any club.

It can also be put to a few other uses on the course. When relaying a green it can be used to break up the soil below the turf instead of digging by hand and when riddling compost it can be used to break up the compost like a compost-shredder.

SITUATIONS VACANT

ASSISTANT HEAD GREENKEEPER. Applications are invited for the above position. Age preferred 25/30. Living accommodation available on Club premises. The successful applicant must be able to furnish two satisfactory references as to health and ability. Apply in writing, stating salary required, to The Secretary, Ifield Golf and Country Club, Crawley, Sussex.

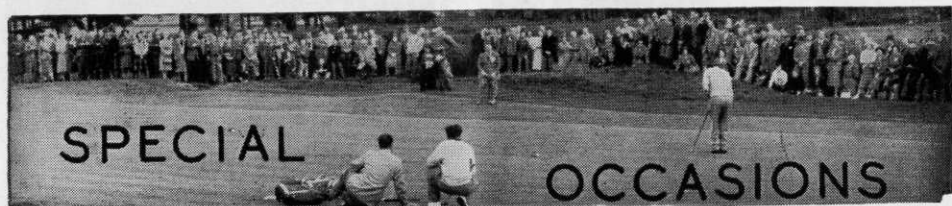
ASSISTANT GREENKEEPER required at Purley Downs Golf Club, 106 Purley Downs Road, Purley. £15-£17 per week, according to experience. Apply: G. Watt, Head Greenkeeper. Tel. 01-756 8347.

HEAD GREENKEEPER REQUIRED. Experienced in all aspects of course work and machinery. Salary up to £1,000 per annum. Apply to: The Secretary, Lytham Green Drive Golf Club, Ltd., Ballam Road, Lytham St Annes, Lancs.

GREENKEEPER REQUIRED FOR Harpenden Common Golf Club. Good wages in accordance with experience. Accommodation provided for first-class man. Apply to Secretary. Telephone: Harpenden 2856.

FOR HIRE

AVAILABLE FOR HIRE, WITH or without operator, Ryan turf cutters, Ryan Ren-O-Thin rotorakes, Ryan Greensaire aerators, Sisis heavy-duty spikers, Howard rotavators, excavating and drainage machinery. Coswells, Agricultural and Sportsground Contractors, Crosston Road, Farington, Leyland, Lancs. Telephone: Leyland 21243.



MAY	2nd	North-West Section Spring Tournament and A.G.M.
	7th	Northern Section Spring Tournament.
	8th	East Midland Spring Tournament.
	15th	Southern Section Spring Tournament.
JUNE	5th	Southern Section A.G.M.
	20th	Midland Section Annual Match.
JULY	2nd	Welsh Section A.G.M.
AUGUST	12th	} B.G.G.A. Annual Tournament—Seacroft Golf Club, Skegness.
	13th	
	14th	
SEPTEMBER	18th	Welsh Section Autumn Tournament.

High-performance power

Like Mr Paul (Head Greenkeeper at Belfast's Belvoir Park Golf Club) you should get Versatiller's easy-to-control power working for you. From sand-grubbing to constant-depth digging for awkward borders or large areas — Versatiller cuts time and trouble in half! With dirt-protected engine, recoil starter, remote throttle and stop plus adjustable handles — let Versatiller chop your handicaps!

Send for literature and your dealer's name!

With a willing 4-stroke and 120 c.c.'s raring to get to grips with forwards or backwards digging.

Digs borders easily!

Powers flexi-drive, has 12" manoeuvrable wheels, comfy handles and 11" slasher bladed rotor.

Dig the Versatiller!

Farmfitters

Farmfitters Ltd, Tatling End, Gerrards Cross, Bucks.
Tel: Gerrards Cross 82053/4

EDITOR MOWING—

My moss is now ready for a top over and I have been down to the stable to see my old favourites.

There is a piece out of the cover of the Flymo and I doubt whether the engine will do for another season. Rotary mowers have to rev so hard. I shall go on to the professional model because this machine is still ideal for sliding under shrubs, and cleaning up round paving stones sunk in the lawn.

The Victa Consul 2 will certainly do another year. I like the air-intake up on the handle out of dust's way, and the

general air of sound engineering. In Australia, where it comes from, most ironmongers have spare parts for it in plastic bags hanging on a display stand. I expect to get two seasons at least before I have to think about an overhaul and I ask and get a lot from it.

The Toro "21" Greensmaster is rather noisy for the garden though the visible oil reserve and plug for washing out the grass hood with the hose are useful for the amateur. Getting rid of the cut grass is the important thing for rotaries.

The Ransomes Antelope gives my moss about as good a "polish" as I am ever likely to need, cuts short or longish, wet or dry, and the blades on its cylinder never seem to mind the odd stone. I also prefer it for mowing fir cones because it stops turning. The rotaries whang them out in all directions and can be painful.

Incidentally do not study the sort of rotary mowing advertising which shows a young lady in sandals operating the machine with a delicate touch. She should be wearing boots with steel toe-caps if she values her toes more than her appearance.

Another season of piling back the cuttings, shaving, and similar abuses should reduce the grass to the stage where I can master it with an occasional snip with the scissors. Until then, grease up, fill up, wind up and let's hope the boys will be home for the week-ends to do the job for me.



FOR HIRE

SISIS AUTOTURFMAN Aerator for hire, £25 per week — Do it yourself. J. B. Burnell, 2 Clarence Road, Eaglescliffe, Stockton on Tees.



Get behind a
VICTA

TOMORROW'S POWER MOWER

Victa Consul 2

This versatile model is powered by a simple 2-stroke 125 c.c. engine, developing an operational performance of 4,000 r.p.m. This is an ideal mower for all types of grass—long or short, rough or sloped. Victa's easy mowing features include impulse starting, instant height adjustment, folding handle and a full 18" cut to save you time and effort.

Over 1 million Victa mowers in use throughout the world

There's a mower for you in the Victa range:—the Corvette 2—Corvette 4—Consul 2—Self-Propelled '160', or the new Victa Consul Professional.

Prices from £46 12s. 6d.—£68 0s. 0d.

For a free colour brochure and information, write to: Victa (UK) Ltd., Victa House, North Pallant, Chichester, Sussex. Tel: Chichester 86231

Name.....Address.....

Town.....County..... GGM

TORO^{Regd.} by Flymo



Highest work rate-

Whatever your mowing problem, we have the machine for the job. Here are three from the comprehensive range—machines built by professionals for professionals.



NEW heavy duty FLYMO 19" Professional—floats on a cushion of air.

Does a big cutting job with little effort. Cuts long grass or short—wet or dry—on slopes, level ground, or in the most awkward corners.

The Flymo Professional has powerful new 4 h.p. engine with double-pulley action for easy start.

New, stronger ABS (Cycolac) hood.

New anti-dust barriers to the electrics and the engine.

New nylon-filled fibreglass impeller.



TORO 21" Greensmaster — for the perfect finish

Specially designed for golf or bowling greens, tennis courts—and all places where absolute perfection of finish is needed. 147 cuts per yard. Unique floating action isolates the cutting unit from the traction and catcher sections, eliminating gouging and digging. Perfect grass collection—even in the wettest conditions. Powered by a 3 hp, 4-stroke Tecumseh engine.

Send today for full details of the Flymo range to:

lowest labour cost



TORO 70" Professional — mows 14 acres a day

Three easily adjustable 25" self-sharpening 5-bladed cutting cylinders. It has large, low pressure tyres to avoid the risk of damaging the turf. The machine which is powered by 6.25 hp, 4-stroke Kohler engine, can mow $1\frac{3}{4}$ acres per hour. And it's fitted with forward and reverse gears. Recommended for areas up to 20 acres. Power to weight ratio: 1.5 h.p. per cwt. Turning circle: 12" to inside wheel.



Mr. S. T. McNeice,
Head Greenkeeper,
Leicestershire Golf Club,
talking about the Toro 70",
said —

"The machine saves 50% on time and is improving the standard of turf on the approaches. It is the best machine we have had yet and I am delighted we bought it. Every Golf Club will get one when the machines are more widely known."

**Institutional Division,
Flymo Limited, Greycaine Road, Watford, Herts.**

Earthworm Control continued

than previously. Many clubs have tended to let fairways carry on without any treatment with fertiliser, lime or anything else but with the advance of time and the demand for better conditions (coupled with increasing wear) clubs have had to face fairway treatment more and more. In this country most fairways tend to get more acid in course of time and this, together with poor supplies of plant foods, has resulted in very suitable swards often mainly of bentgrass. However, ultimately the conditions become too poor even for bentgrass and application of lime and/or fertiliser becomes necessary. Unfortunately these treatments sometimes result in the incidence of earthworms and also disease. Expert advice can usually minimise these risks though not entirely eliminate them.

A treatment which has never been used extensively and has possibly been used even less in recent years is that involving finely ground sulphur. On wet, clay soils with a reasonable lime status treatment with sulphur can dry up fairways quite a lot and have the further effect of reducing weed and worm infestation. Sulphur treatment can cause a great deal of damage if used badly or under the wrong circumstances and before using it extensively small-scale trials are suggested. On these trials finely ground sulphur at rates of $\frac{1}{2}$, 1 and 2 oz. per sq. yd. can be spread in the spring and the effects noted over the following 12 months.

The sulphur should be well mixed with a large proportion of slightly damp compost or similar to facilitate spreading and minimise scorch risk (the latter being of a delayed action type, damage occurring on patches receiving excess application possibly several months after treatment).

MISCELLANEOUS

PROFESSIONALS AND GREENKEEPERS having stocks of used golf balls contact Sparkbrook Golf Ball Co., 295 Highgate Road, Stony Lane, Birmingham, with a view to filling export orders.

Get on to
GIBBS
FOR THE

RANSOMES AUTO-CERTES



The 18" Auto-Certes is specially designed for the highest quality turf on bowling greens, putting and golf greens. It is powered by a 119 c.c. British four-stroke engine and has a ten-knife cylinder giving 106 cuts per yard. Precision adjustment for height of cut is variable between $\frac{1}{8}$ " and 1", and separate landroll and cylinder clutches assist manoeuvrability and give perfect 'dual control'.

Get on to Gibbs for a demonstration or details — TODAY!

J. GIBBS LTD

Bedfont, Middlesex Tel: Feltham 5071
Ripley, Surrey Tel: Ripley 3101 and
Bracknell, Berks Tel: Bracknell 4222

TREAD CAREFULLY, STRANGER

Start Right — From the 1st to the 19th

The experienced Duffield Sims continues to explain etiquette to novice Roger Green.

THE fourball which Roger Green was watching played to the seventh green and Dick's ball landed in a bunker close to the green. He prepared to play it and shuffled his feet in taking his stance.

After playing the ball he took a lot of trouble in smoothing the holes his feet had made and that made by his club. He then walked carefully out of the bunker smoothing his footmarks with his club.

"See that," said Duffy to Roger, "that is something you must always do. A hole left can trap a ball later and this is unfair. You must, to use a popular phrase, always leave a bunker as you would wish to find it."

On the green, Tommy was busy using a peg (the kind used on a tee) to repair a hole caused when his ball had hit the green which was rather soft. He carefully pushed the turf back into place and then gently patted it level with the bottom of his putter.

"Always repair your pitch-marks, Roger," said Tommy, "we must all do our share in keeping the green in good condition. If players didn't do it, you can imagine how the greens would suffer."

"You can do this after holing out but don't hang around unnecessarily. Someone may be waiting to play to the green."

"My turn to putt," said Duffy. "Roger, make yourself useful and take the flagstick out, please."

Roger did so but stepped very close

to the hole and then dropped the flagstick rather heavily on the green.

Duffy said nothing but when they had finished the hole, spoke to Roger. "You did three things wrong then. You stepped on John's line, that is, the line from his ball to the hole and you could have left a footmark there."

"Always go round behind a ball if you can or take care to step clear of anyone's line."

"The other two things concern the care of the green. You should try to keep your feet as far away from the hole as you reasonably can and the flagstick should be laid down gently."

"And, incidentally, never, never, take your trolley on to a green but keep it a reasonable distance away."

"Some players will take a trolley between the green and a bunker very close to the green, but the good golfer and good club member take it round the outside of the bunker."

"Quite a lot to it," said Roger, "but I'll leave you now — I've disturbed you enough. Thank you all for being so helpful."

"Right," said Duffy, "we'll talk more about etiquette later. It cannot be stressed too much. And please watch how you go walking back to the clubhouse."

"Don't walk across fairways if someone is playing that hole and don't walk close to anyone playing a shot. In other words, don't get in anybody's way."

(With grateful acknowledgments to the "Bristol Evening Post")

EIGHTEEN HOLES

WITH

HAWTREE

No. 2

by Fred Hawtree

From the first tee of the Old Course at Sunningdale, the big, well-shaped bunker sets the scene, irrespective of its function in play. One is tackling a golf course in the grand manner. There is another, still shorter, on the left of No. 1 at Fairhaven, and an elegant little clutch of bunkers under the tee shot on the first hole (West Course) at Moor Park. Useless, strategically, they may be, but their landscape value has preserved them so far. Apart from personal views, this group is a happy memorial to the talents of Mr Harry Colt. He began his career in golf, probably by no coincidence, as secretary at Sunningdale, and knew more than most of us how to get the best golf out of any given piece of land.

But, if the design of the first hole is strongly governed by extraneous factors

and its effect on the player is limited by his subjective reactions, the tee shot at No. 2 must command his full attention.

Ideally, a par-3 or par-5 might still be considered premature, so I put forward a par-4 of 440 yards as the next element in the pattern we are building up. An ideal pattern could, admittedly, be a very great bore on a dull site where an unexpected combination of lengths might itself stimulate interest. Moreover, few championship golf courses are conformist. The land itself always has the last word. But if the layout is well fitted to it, the pattern of lengths on the card is as much part of the total effect as the quality of the holes individually. In the same way a game of chess has a certain coherent design, even if more dependent on the opening. The individual moves

R. C. CRAIG

AND CO. LTD.

SPECIALISTS IN THE REPAIR AND
MAINTENANCE OF ALL TYPES OF MOWERS

★ Agents for: RANSOMES SIMS &
JEFFERIES Ltd.

★ LLOYDS & Co. Ltd.
WEBBS LAWN MOWERS

★ Distributors: DENNIS BROS Ltd.

★ GANG MOWERS FOR HIRE

We will gladly call on you to advise on your grass cutting equipment or arrange demonstrations. Ring us now.

★

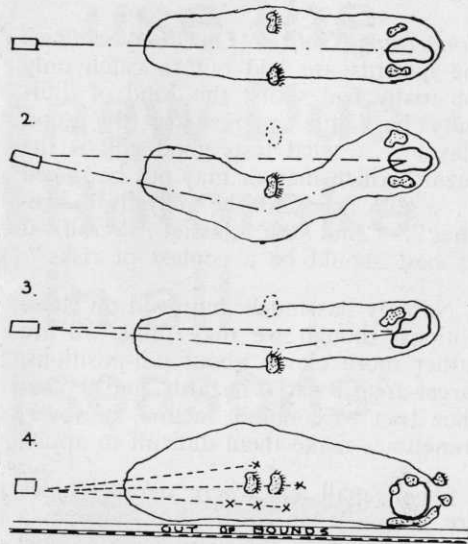
**153 Arch Stamford Brook
Station, LONDON, W.6.**

RIVERSIDE 5415

have a separate existence, determined either by immediate considerations (bunkered) or future gain (no difference).

The par-4 is particularly apt for this analogy because it normally demonstrates at least one elementary principle of bunkering, and we had better tackle this question before you make up your mind how to play the hole.

The broad view of bunkers has generally divided them into those which are "penal" and those which are "strategic". These terms are not ideal, because they are not mutually exclusive, so we will describe them as negative and positive. Figure I illustrates the penal or negative type of design. The player is invited to hit a straight shot and no special advantage or disadvantage results after a reasonable deviation from the central line. Thus no forward thinking to the second shot is demanded, and the hole degenerates into a series of isolated incidents concerned with striking the ball.



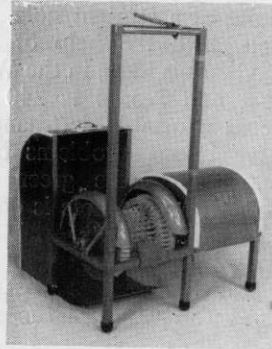
Strategic or positive design (Figure II) allows the same or even wider margin for error but halves or quarters the area from which the second shot can comfortably be played. In principle all we have done is move the fairway to one side, though, where space is limited, the same effect must be achieved by angling the green (Figure III).

Now the player is invited to sail as close as he deems prudent to the single fairway bunker if he hopes to place his second shot close to the flag-stick. He must therefore think forward, thus uniting the business of making shots with the mental process involving a whole series of shots.

There are infinite variations on this theme which we shall discuss later. Clearly the basic notion is eventually related to the dog-leg (No. 5 in our round) but that, as we shall see, needs space which some sites do not allow.

None of this is new. In 1903, John L. Low was saying in his book,

CLEAN CLUBHOUSES



"MUNROTA" £59 10s. EX WORKS
ELECTRIC SHOE CLEANER

STEWART & CO.,

FINE TURF SPECIALISTS

EDINBURGH, 2

Eighteen Holes with Hawtree continued

Concerning Golf: "On many courses the hazards are laid out to catch only the really bad shots; this kind of difficulty has little interest for the good player . . . what tests good golf is the hazard which may or may not be risked . . . golf need not be played in bee-lines". And the classic: "Golf at its best should be a contest of risks".

Nobody has much improved on those notions, though we may think we are rather more clever about pin-positions, target-areas, water hazards and horse-shoe tees. Economic factors, however, sometimes make them difficult to apply.

On a small site where parallel holes are frequent in order to achieve a standard length, their application must be tentative. If the bunkering or green orientation is too aggressive, there will be too little margin left of the fairway to give a reasonable tolerance. Discussions about whether the rough should be short or long then become more complicated. Even worse, the wrong fairway can become the right line for a hole.

Figure IV is probably about as far as anyone can go in both presenting and limiting choice at a straight hole. John Low himself, with the help of Stuart Paton, embodied his ideas in the Woking Golf Course, and No. 4 is 340 yards long. The comfortable left-hand line from the tee brings problems beyond those seen, because the green slopes from left to right. The hole is downhill and presents itself without guile on the tee. Apart from an increase in length, it has not altered since the first bunker was made, at 180 yards in those days.

If you are in doubt about how to play it, one professional golfer well known for his teaching confesses to taking aim exactly on the first bunker and hoping to slide by on one side or the other.

We may as well admit that neither playing the game nor designing for it are yet exact sciences. If only they were! We could walk in now.

R

and

K

✱ The letters that represent
the highest ever standards
of mower selection and
service

*(No wonder—the showrooms are
packed with top-name machinery)*

RELF AND KENDALL
406 BRIGHTON ROAD, SOUTH CROYDON, SURREY. CR0 0578
11 STATION ROAD, NEW BARNET. BARNET 8228



SPORTS TURF RESEARCH INSTITUTE

The 17th A.G.M. of THE SPORTS TURF RESEARCH INSTITUTE was held at Bingley on Monday, 29th April, under the Chairmanship of Mr Alan Sowden.

(1) In the annual report for 1967 reference was made to:—

(a) *Research*

Much useful work was accomplished, including assessment of grass varieties, seeking new weed-killers suitable for seed bed work, etc. Although various factors, mostly financial, have prevented any expansion of research in recent years it is hoped that an additional appointment to be made in 1968 will improve the position.

(b) *Advisory Work*

There was once again an increase in the number of subscribers to the advisory service and visits were made to sports grounds, school playing fields, etc., throughout the British Isles to advise on both construction and maintenance. The Institute continued to advise a large number of continental clubs and to visit a high proportion of them.

(c) *Finance*

Despite earlier fears as to the possible effects of the Government's economic measures the Institute came through 1967 less financially scathed than in the previous year. Although there was a deficit this was sufficiently small as to be of little consequence and the Institute continues to be sound financially.

(d) *Other Matters*

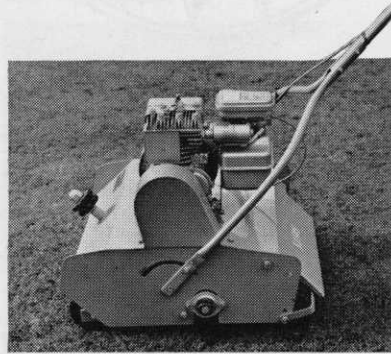
As the national centre for sports turf the Institute is continuously consulted by organisations having allied interests and also by Government Departments and Universities. The Director, Mr J. R. Escritt, served throughout the year as a member of the Herbage Seed Supplies Committee set up by the Minister of Agriculture and chaired its Amenity Grasses Sub-Committee. The Institute also co-operated with the British Standards Institution in the drafting of standards relating to amenity turf.

(2) A message of loyal greetings was sent to H.R.H. The Duke of Edinburgh, Patron of the Institute.

(3) The following elections were made:—

Presidents, The Duke of Norfolk; Vice-Presidents, Mr Carl Bretherton, Sir William Worsley and Mr R. B. Dawson; Chairman, Mr Alan Sowden; Vice-Chairman, Mr Carl Bretherton.

use the new Duo- Rotorake in all seasons



The vertical blades of the new Sisis Duo-Rotorake turf fibre cutter can be set to contra-rotate when your fine turf needs full surface treatment in the autumn. Swing the handle over when you want mower rotation for surface scarifying in summer when greens are dry or need more gentle surface treatment. Replace the blades with the wire tine reel for rotary scarification to lift stolons and surface growth in dry weather. The Duo-Rotorake runs easily on flat, wide wheels placed at the four corners of the machine. Depth of cut adjustment is simple with the micro-adjuster. The reels are powered by a 3 bhp four-stroke engine.

The Duo-Rotorake complete with cutting and scarifier tine reels costs £95. Please contact **Sisis Equipment (Macclesfield) Ltd.**, Macclesfield, Cheshire, telephone Macclesfield 6363, or ask your dealer for a demonstration.

it's made
by **sisis**

News



from the Sections

SOUTHERN

Chairman:
J. K. GLASS
(Thorpe Hall)

F. W. Ford
Hon Secretary:
68 Salcombe Gardens
Mill Hill, N.W.7
Tel: 01-959 2847

Annual Dinner

TO THE SOUND OF BAGPIPES played by kilted W. B. Mackean, the South Beds Highlanders, 66 members and guests assembled for the Annual Dinner at Dulwich and Sydenham Golf Club. Grace was said by our president, J. Wallis-Arthur, and before eating began the Section chairman, J. K. Glass, gave the results of the afternoon's 18-hole stableford competition.

The winners, Bob Plain and Mr Woodall of Beaconsfield, with 38 points, were presented with a bottle of Scotch each and the runners-up, D. Major and E. Folkes on 37, each received a bottle of gin. The prizes were bought with the sweepstakes and a £5 donation from the Dulwich and Sydenham Golf Club. Bottles of wine adorned the turkey dinner and these were very generously provided by the captain of the club, Mr Talbot. Thanks also to Pat Kirkpatrick for getting the course into such good shape for us to play on and the professional, Len Rowe, for the free trollies.

Introduced by our president, Mr Talbot welcomed and proposed the Association. Replying, the Association chairman, Mr C. A. Moore, thanked everyone who had helped to make the day such a success and talked at length on the beginnings and history of the B.G.G.A.

J. K. Glass congratulated C. A. Moore on being the first chairman of the Association from the Southern Section to get a free dinner. He then proposed the visitors.

Jimmy Adair, the secretary of the Association of Club Secretaries, replied and said how much he had enjoyed the golf, the weather, the dinner and the good company.

This concluded the speechmaking and Mr Ridley, the secretary of the club, invited us to stay on at the bar or watch the international golf on their coloured television set as we wished.

New Members

We welcome to the Section the following new Members:—F. C. Boatfield and C. G. Vickery.

SHEFFIELD

Chairman:
G. HERRINGTON
(Lindrick)

By H. Gillespie
63 Langsett Avenue
Sheffield, 6

Lecture

THE LECTURE, "AUTOMATIC IRRIGATION by Pop-up Sprinkler," held at the Brunswick Hotel on 28th March and given by Mr G. C. Wilkins of the British Overhead Irrigation Ltd., was not as well attended as it deserved to be. It is most disappointing when lectures of an interesting, informative and very topical nature are arranged, and the lecturer has travelled a very long distance only to see 20 members turn up on a perfect evening. These lectures, there are only six from October to March, are for your benefit.

We thank Mr Wilkins and B.O.I.L. for an interesting lecture. This is a subject that is sure to play a very important part in our trade in future years. The questions raised were very constructive and must have given food for thought.

Exhibition

As you are no doubt aware, Messrs Fearnco Ltd. are proposing to arrange an outing to the National Association of Groundsmen's Annual Exhibition at Motspur Park on Wednesday, 18th September 1968. Seats are available at a cost of 10s. each. Two coaches will leave Sheffield at approx. 6.30-7 a.m. and travel via the M.1 motorway to arrive at Motspur Park by lunch time. The return arrangements are for one coach to leave the show at approx. 6.30 p.m. and call for a meal en route and arrive home in time to catch the last buses from town. The other coach will stay on in London for those who desire it and will leave at midnight.

I will be pleased to reserve you a seat or seats should you wish, but you are asked to do so immediately, enclosing 10s. for each seat required and stating by which coach you wish to return.

Congratulations

We send our congratulations and best wishes to Mr J. Lomas on the occasion of his recent marriage. Jack is one of our

longest serving members and has for many years been on the staff of the Beauchief Golf Club.

NORTHERN

Chairman:
D. ROBERTS
(West Bowling G.C.)

By J. Parker
Hon. Secretary:
8 Goit Stock Terr., Harden,
Bingley, Yorks.

Annual Dinner

THE THIRD ANNUAL DINNER OF the Section was held in the clubhouse of the Horsforth Golf Club on Wednesday, 27th March. Though the attendance was somewhat disappointing, 36 being present, a most enjoyable evening was spent. Our thanks are due to Ron Hartley, steward of the club, for a first-class meal and the club committee for granting us the facilities of the clubhouse.

Tragic Loss

I am sure that all members will be deeply sorry to hear of the death, as a result of an accident, of Marcus, the son of our vice-chairman, Adrian Robertshaw. A floral tribute from the Section was sent to the funeral expressing our sympathy.

New Members

We welcome to the Section the following new members: C. Martin (Fulford G.C.), G. Hodgson (Headingley G.C.), J. Doull (Keighly G.C.), R. Lambert and K. Barton of Wetherby G.C.

WELSH

Chairman:
M. GEDDES
(Royal Porthcawl)

By S. A. Tucker
Hon. Secretary:
36 Clase Road,
Morriston,
Swansea, Glam.

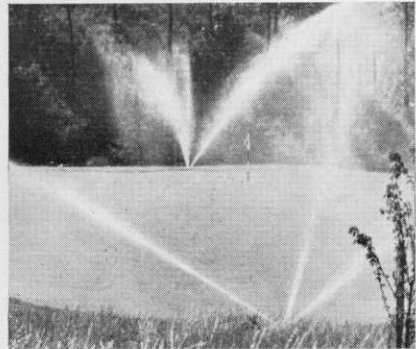
I AM PLEASED TO SAY THAT DAVID Lord is coming along quietly. He has now gone to stay with his son for a few weeks and we all hope that the change will do him a lot of good. The best of luck Dai.

Mr Hooper of the Glamorganshire Golf Club has just retired after 40 years with the club. We all join in wishing him a long and happy retirement. We also hope to see him at our meetings.

Our Annual General Meeting takes place at the Southerdown Golf Club on 2nd July. I would like all members to make an effort to attend and please make sure of letting me know in plenty of time so that I can make all the arrangements with the secretaries whom we join in the evening for supper.

Every week another golf club decides to install

BOIL Pop-Up Sprinklers



Will your club be next?

Forget the idea that pop-up's are a luxury! Every week another club decides to install a B.O.I.L. pop-up system because they acknowledge that pop-up's are essential to any club wanting to provide its members with the best possible playing conditions. Not only do pop-up's improve the holding and putting qualities of greens, fairways benefit too. Pop-up's water automatically, at night, so play can commence as early as the earliest bird—even before the greenkeeper arrives! Pop-up sprinklers are the modern way to water greens—once installed (there's no interference with play) they save time and labour costs and enhance the reputation of **your** club. Write for details now—the queue is growing!



BOIL

British Overhead Irrigation Limited
Upper Halliford · Shepperton · Middlesex
Telephone 09-327-85177 Telex 917220

Mrs Greenkeeper's Own Corner

with Ann Mawson

Dates are always a good standby for your storage cupboard, and there are so many different ways you can use them. Dates may be stuffed in so many ways, and they make delicious little desserts for cocktail, luncheon or dinner parties.

Stuffed Dates

Wash and dry the dates and cut them through on one side to remove the stones. Fill with any of the following fillings; roll them in icing sugar.

Fillings

Chopped or quartered walnuts, chopped glace or crystallized ginger, mixed with whipped marzipan coloured in various shades; rolled in a shape to fill the dates and topped with half a blanched almond, brazils, skinned and mixed with a little icing sugar, moistened with orange juice, glace pineapple mixed with lemon-flavoured fondant.

The uncooked marzipan and fondant are excellent for these and very easy to make.

Plain Fondant

1 lb. fine icing sugar, the white of one egg, pinch of cream of tartar, 1 teaspoonful lemon juice, 1 dessert-spoonful water.

Turn the sugar on to a large sheet of white paper and roll it until it is free from all lumps, rub it through a fine sieve, put it into a basin, add the cream of tartar and mix well. Stir in the water and lemon juice and continue stirring until evenly distributed. Thoroughly whip the white of a very fresh egg, and work it in gradually until it is a pliable paste which can be kneaded as you would bread. More white of egg may be needed; it depends on the size of egg you use. Put the paste on a board which has been well dusted with icing sugar, and knead it for a few minutes until it is very pliable. Leave it to "settle" for one hour. If you want a cream fondant add two tablespoonfuls

of cream to the sugar, just before adding the egg white.

Coconut Fondant

To the cream fondant add 1 oz. of fine desiccated coconut, form them into small rough pieces and roll them in coconut.

Fruit Fondant

These are made by adding 1 oz. chopped glace cherries, or any glace fruits and 1 oz. blanched almonds, finely chopped.

Coffee Fondant

Work as many drops of coffee essence into the cream as necessary to colour it, and a few drops of vanilla essence to flavour.

Marzipan

4 oz. ground almonds, 2 oz. icing sugar, 2 oz. castor sugar, enough egg to mix to a stiff paste.

Mix together. Roll out and cut pieces to the size you require.

All these will make fillings for your stuffed dates.

Date Cream

2 tablespoonfuls hot water, 1 level tablespoonful powdered gelatine, grated rind of half lemon, 1 pint milk, 1 tablespoonful of castor sugar, 2 eggs, 1 lb. dates, $\frac{1}{2}$ oz. butter.

Generously butter a mould. Wash and stone the dates, cut them into halves, line the buttered mould with them. Divide the whites from the yolks of the eggs. Beat the yolks with the sugar, scald the milk, and add to the beaten yolks together with the grated lemon rind. Stir over a gentle heat until very hot, but do not let this boil. Set aside to cool. Dissolve the gelatine in the hot water and stir into the warm milk. Strain into a bowl. Beat the egg whites until stiff and fold them in. Turn into the prepared mould; spoon it in carefully so as not to disturb the dates. Leave until set.

To serve four people.

—Until June . . .



The BMC Mini Tractor keeps golf courses up to scratch

The Mini is ideal for all golf course maintenance. Light on your grass. Light on your capital costs. Incredibly light on running costs, and so versatile. The Mini makes its mark everywhere — *except on the grass.*

Yes, Mini linkage is designed to take implements for all aspects of turf cultivation.

Now add Mini manoeuvrability and the fluent traction from its sturdy BMC diesel and nine-speed gearbox. Then add every refinement you want — independent hydraulics and 2-speed P.T.O., differential lock, electric lighting, grass-land tyres . . . all at mini-cost.

Why burden your budget — and your turf — with anything bigger? See your BMC Nuffield dealer now for a working demonstration. NOW. Today's budgets make the Mini a must.



THE TRACTOR TAILORED FOR TODAY **BMC MINI** LIGHTWEIGHT

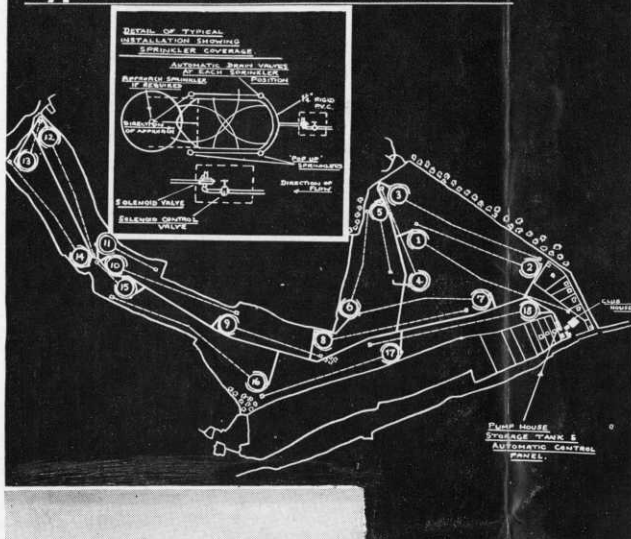
H.P.U. Model (diesel) £585.

Standard Model (diesel) £512.10.

**Backed by BMC Service —
Express — Expert — Everywhere.**

THE **BRITISH** MOTOR CORPORATION LIMITED
(Agricultural Sales Division), Longbridge, Birmingham.
Overseas Business: BMC Export Sales Limited,
Birmingham and 41-46 Piccadilly, London W.1.

Typical Golf Course Installation



Pop-Up Sprinklers are installed at ground level and are connected to underground pipe lines. Water pressure raises the sprinklers out of their respective housings to work-sprinkling positions. The sprinklers automatically return to their rest positions when the water supply is cut off—either manually or through the automated programmer.

As the characteristics of every golf course are different we shall be pleased to draw up plans to suit your own requirements, utilising the labour saving Cameron Pop-Up system.

Write NOW for illustrated leaflet giving full details of this and other sprinkling systems for Tennis Courts, Football Pitches and Bowling Greens, etc.

Cameron



Cameron Pop-up Sprinklers for a perfect Golf Course

The Cameron Pop-Up Sprinkler System for golf courses not only solves the manpower problem it also ensures that during prolonged dry conditions greens and fairways are always in peak condition without bare patches or puddles caused through saturation watering.

The Cameron method caters for the differing requirements of tees, fairways, greens and approach greens using full circle or sectoring sprinklers as required. Generally four to six sprinklers are required for greens of 400 to 700 square feet. Since the greens require short duration sprinkling the Cameron Pop-Up system is entirely automated via an electronic programmer.



Tel: Littlehampton 3985/6/7.

Cameron Irrigation Co. Ltd.,
Harwood Industrial Estate, Littlehampton, Sussex.