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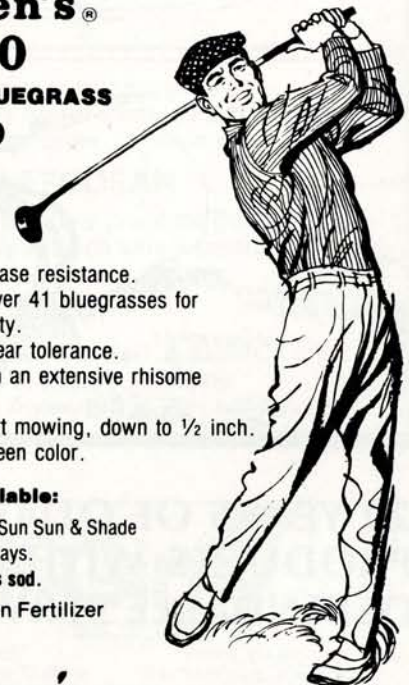
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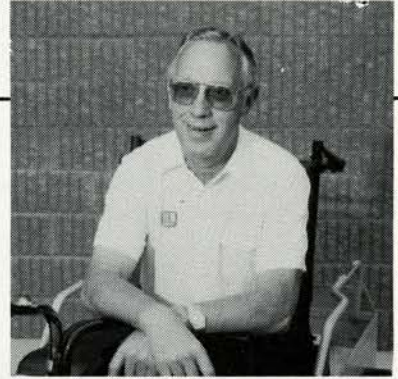
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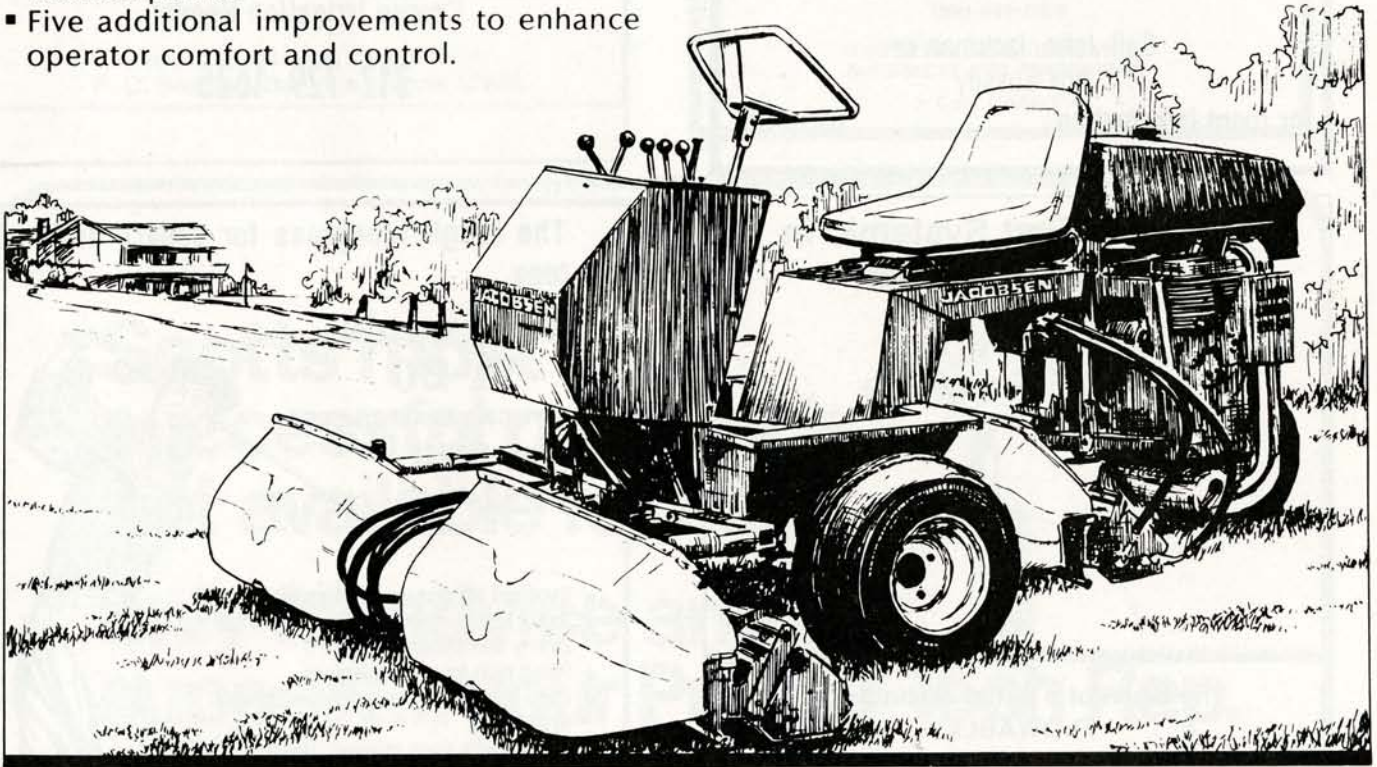


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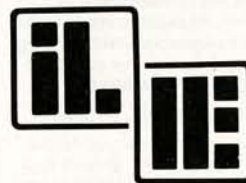
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OH! THOSE BURDENS OF COMMITMENT!

Responsibilities are defined as burdens of responsibility or commitment. We all have responsibilities in our life and many of them involve our work and in particular our profession. From time to time it is necessary to re-examine these responsibilities to remind us of their existence.

This became obvious to me at the last MAGCS board meeting when I was reminded by our president, who was enthusiastically supported by the editor of this publication, that I had not written an article for the **Bull Sheet** this year. I knew that I had not written my article as all Directors of the MAGCS have the responsibility to do. I tried to be as inconspicuous as possible at the board meeting by placing the Director next to me directly in line with our President's omnipresent and constantly scanning vision. Being completely blocked from his view, I felt safe. As the board meeting progressed, the subject of the **Bull Sheet** was discussed and disaster struck. President Berarducci asked our vigilant Editor Gerber which members of the Board of Directors had not submitted an article to the **Bull Sheet**. For a brief moment, I thought I had snowed them as President Berarducci mistakenly thought that I had fulfilled my responsibility and produced an article this year. However, I knew I was done for when Editor Gerber slowly pulled from his pocket a little white piece of paper with, you guessed it, the list of Directors who had written an article this year. As the list dwindled down, it was apparent that Editor Gerber had not made the same mistake as President Berarducci. It was apparent that I would be suffering the jeers and stares of my fellow Directors and I began to panic. I immediately feigned a loose shoe lace and threw my head under the table with sweat pouring from my brow. Miraculously, I heard my name mentioned as they finished reading the list and thought I had been saved by a heretofore unheard of error on the part of Editor Gerber. I slowly peeked over the edge of the table and peered down its length. There they all were, fourteen eyeballs burning holes in my forehead. Dead Silence. I had been duped!

Well anyway, after the appropriate reprimand, I agreed to furnish Ray Gerber with an article for the next **Bull Sheet** and this is the result. In reality, we all need a reminder about our responsibilities at times and I guess it was about time that I had mine.

It also brings to mind that the MAGCS Board of Directors carries out its responsibilities as a group pretty darn well. It is the President's and the Editor's responsibility to see to it that all Directors submit an article to the **Bull Sheet**. They carried out that responsibility well. Why do all Directors submit articles? We hope that by doing this many of the MAGCS members will follow suit. The **Bull Sheet** is in many ways the life blood of our association. It needs the support of each and every member to be successful. Why not submit an article once or twice a year beginning with the next issue. Deadlines are the tenth of the month.

It is a good time of year for all of us to assess our responsibilities concerning our profession, personal actions, families and our peers. Look back over the past year and think about the responsibilities you carried out successfully and those you let get away from you. Make commitments to yourself to be better organized in the future so the weight of those burdens of obligation will be just that much easier to carry. Make one of those commitments to your profession and contribute to the **Bull Sheet**. It really is painless.

Yes, John and Ray, that's what I'm doing also!

**Roger Stewart, Supt.
Riverside C.C.**

IN YOUR GARDEN EVERGREEN NEEDLE LOSS HEAVY

Unusually heavy needle loss is being seen on narrow-leaf evergreens throughout the Midwest.

Evergreens are so named because of their habit of keeping leaves (needles) through the winter. However, according to James A. Fizzell, University of Illinois Horticulturist in Cook County, evergreens shed their needles on a regular schedule, sloughing off old ones as new ones sprout. Under normal conditions, the needles are produced in the spring and live two or three years. When sufficient new growth has taken place on the tips of the branches, these older needles in the center drop off, having served their purpose of photosynthesizing carbohydrates for the tree.

Arborvitae and white pine, for example, drop needles when the needles are two years old. They have a "needle life" of two years. Other trees have longer needle lives. That of the bristlecone pine is eight or fifteen years.

Normal needle drop occurs during late spring and summer and is usually not noticed because of the density of new growth hiding it.

During the last few weeks, University of Illinois Extension offices throughout northern Illinois have received a tremendous number of calls from distressed plant owners reporting browning and dropping of needles from all types of evergreens. Inspection of these plants reveals no diseases or insects but early senescence of one and two year old needles. In some cases even current years' growth is affected.

Fizzell says the plants have been exposed to tremendous stress since these needles were formed.

The summers of 1980 and 1981 were very wet causing plant roots to suffer. The winter of '81-'82 was one of the most severe on record damaging exposed foliage.

Spring of '82 was hot and dry at the time plants were making new growth. Early summer was variously wet or dry depending on locale and rather cool; August and September were dry.

It is no wonder the plants are unhappy, says Fizzell.

Where the new needles are unaffected there is no cause for alarm. The buds at shoot tips will grow next spring improving the looks of the somewhat sparse trees.

Where shoot tips have turned brown and lost needles, the buds are most likely dead too but don't prune out these limbs until next spring when you know for sure whether they will grow. If branches next to the dead limbs are healthy, they will grow into the voids left by pruning.

Dear Ray,

Everyone is busy winterizing their Course, for the big sleep.

"SLUMBER TIME"

With the Ghosts and Goblins of Halloween,

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Thanksgiving plays a graceful Host,

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A reason to be happy,

For the pleasures we have found,

In being a part of a wonderful Sport,

In Golf's Garden of Eden, the Course Ground.

So while it rests and slumbers,

In Winter's wind and snow,

It will soon awaken,

Singing, come on you all, let's go.

Superintendently,

**Kenneth R. Zanzig
Green Garden C.C.**

AUTUMN SEEDING FOR BEST LAWN RESULTS

Nature's way is usually the best way after all. And, autumn seeding comes close to being nature's way. By this time of year, temperatures are cooling off, days are getting shorter and soil moisture is ideal for germination of seed and early seedling establishment. At this time many annual weeds like crabgrass have finished their growth cycle and will not compete with seedling lawngrass plants.

Four to six weeks before the first autumn frost is about the ideal time to plant a new lawn or overseed one that has suffered through an unfavorable summer. Lawns started or improved then will be ready for sturdy growth next summer.

Kentucky bluegrasses are considered basic to lawn seed mixtures used in the cool, humid regions of the country. Hybrids such as Adelphi, America, Bonnieblue, Eclipse and Majestic have been selected for dense, low growth and fine texture. Other cultivars derive from natural selection and feature the best adaptation that nature has to offer. Noteworthy American finds are Arboretum, Glade, Merion, Merit, Nugget, Plush, Ram I, Touchdown and Vantage. Among the very best from afar come Birka, Enmundi, Fylking, Monopoly and Sydspout.

This autumn, select a lawnseed mixture containing one or more of these recommended bluegrasses. This easy to make decision will be the start you need to make your lawn the talk of the neighborhood next spring.

Plants under severe stress need special attention. They should be watered well if fall continues dry. If they are in poorly drained soil, some means of draining off excess water needs to be devised. Make every attempt to avoid root injury. Trees in exposed locations may benefit from treatment with an antidesiccant to reduce moisture loss from leaves. Or, construct some sort of screen to protect exposed plants from winter sun and wind.

While plants under stress normally recover when conditions improve, spruce and pine are susceptible to attack by disease organisms under such conditions. Cytospora canker is the most damaging of these and can ultimately kill the trees. There is no cure for cytospora canker so it is important that the plants receive the necessary care to let them recover rapidly before the disease attacks.

**James A. Fizzell, Sr. Extension Adviser
Horticulture**

An old lady kept asking the busdriver to tell her when they arrived at a certain small town. She asked so often that finally the driver got nervous and passed through the small town before he realized it. He apologized to the other passengers, turned around, and drove back. Then he said to the old lady: "This is the town where you wanted to get out."

"Who wants to get out?" she answered.

The driver said: "You did."

"No", she said, "my daughter told me that when I pass through this town, I should take my pills."

The Bagpipe

NATIONAL CHEMSEARCH CORP.

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ON THE NATIONAL SCENE

Having just returned from my first board meeting in Lawrence, Kansas, I feel that GCSAA is on the verge of many new and exciting plans and programs for its members.

The staff in Lawrence has been organized in a very professional and productive manner. We, as members, will benefit by the many and varied programs that will be forthcoming from this very competent organization. Already I think you see the improvement in our International Golf Course Management Magazine. Our Membership Department has set its goals for us to expand from the present 5,000 members to perhaps 10,000 with future goals ranging to possibly 15,000 in the next 10 to 15 years.

The Marketing Department will be shortly offering a number of items with the GCSAA logo so we all can show our pride in being members of the national organization.

The Education Department will be undertaking great strides in the advancement of our profession. One of the most interesting of these will be the telecasting of seminars, via satellite, to different locations in the United States. These seminars can be attended by up to 50 superintendents without the cost of travel, hotel rooms, etc. In this way the association will offer you the greater programs at a lesser cost to the individual. Look for this department to more than offset the cost of membership in GCSAA.

One other department that has been recently added is the Show & Conference Department. With this department the association will be able to provide us the best possible show sites and give us the best possible rooms at a price we can all afford.

I would be shrinking my duty if I also didn't convey to you the possibility of the movement of National Headquarters to some other site. Current locations under consideration are Lawrence, Kansas: - Denver, Colorado; - Connecticut; - Atlanta, Georgia; - Philadelphia, Pennsylvania; - New Jersey and two Florida sites, Ft. Myers and Orlando.

Hopefully GCSAA will have all the information available this fall and will be able to present to the full membership a site that will fill our needs for the next two decades.

If you have any problems or ideas that I could help you with please feel free to give me a call ... I am working with you.

**Credit - Florida Green
John P. Hayden, CGCS
Director, GCSAA**

THOUGHT OF THE MONTH

"The great sin, fear.

The greatest mistake, giving up.

The most satisfying experience, doing your duty first.

The best action, keeping the mind clear and the judgment good.

The greatest blessing, good health.

The biggest fool, the man who lies to himself.

The greatest gamble, substituting hope for facts.

The most certain thing in life, change.

The greatest joy, being needed.

The greatest opportunity, the next one.

The greatest victory, victory over self.

The best play, successful work.

The greatest handicap, egotism.

The most expensive indulgence, hate.

The greatest loss, loss of self-confidence."

Disease resistance is never completely achieved, but it can be expected that an on-going series of new releases will be bred for tolerance to familiar turf illnesses. Disease resistance is the first consideration with the modern turfgrass breeder. One can almost assume that any release put on the market these days has been thoroughly screened for its ability to resist at least the major diseases in its bailiwick.

We may be even be entering an era in which a mild level disease is to be expected, indeed welcomed in benign form, as part of a balanced turf ecology. The breeder, then, need not try to reach the impossible goal of absolute disease immunity. Total immunity might foster rapid natural selection of serious new epidemics in an unbalanced environment.

While disease concerns may receive first attention, appearance is no less important. Of course, disease-free turf tends to be better looking, but habit of growth, seasonal response, leaf texture, density, color and many other attributes contribute to turfgrass appearance. Again, one can take for granted that cosmetic effects are pretty well screened in the proving grounds. A new turfgrass is likely to be quite attractive, of good color, with fairly decumbent foliage and short sheaths which let much photosynthetic tissue escape under conventional mowing heights. It also will exhibit reasonable aggressiveness under ordinary care, tolerable seed germination and seedling vigor, an ability to spread well; a high degree of uniformity and many other attributes that collectively impart quality and year round beauty.

These are features a breeder must maintain for successful introduction of a new cultivar. Additional virtues are sure to come in time. Certainly good performance under low maintenance looms as increasingly important, as does effective response to sophisticated maintenance such as regulated-release fertilizers. How can all of this be assembled into one genotype and not end up with something so overbred as to be doubtfully viable? How is the heterogeneity that is the hallmark of a successful genotype maintained?

One way, of course, is to mechanically blend several cultivars of a species, or mix a few cultivars of different species. This provides the long-recognized insurance that comes with planting blends and mixtures rather than monocultures. It's a practice to be recommended perhaps more for the nonprofessional than for a golf superintendent trained in the management of monocultures. Even so, the superintendent seldom finds it advantageous to challenge nature unnecessarily.

I believe there is more to cultivar blends than mere cookbook mixing, considering the unusual success enjoyed in breeding Kentucky bluegrass and perennial ryegrass cultivars. With bluegrass, heterogeneity can be achieved (indeed, it can hardly be avoided) by selecting for a high degree of apomixis. Apomixis allows a variable genotype to be perpetuated with little chance for segregation, and is thus a great boon for maintaining heterozygosity devoid of the hazards of inbreeding. No wonder Dr. Funk has given such great attention to utilizing breeding lines which display enough sexuality to allow hybridization but can retrieve a very high degree of apomixis, also.

With perennial ryegrasses, a less complicated procedure has proved feasible - the polycross system. In this procedure, proven bloodlines are interplanted and allowed to cross at will. The offspring are near enough alike and able to reproduce enough to constitute a valid cultivar. Of course, they display that degree of environmental tolerance and enhanced vigor as sexual reassortment can foster. But we still are awaiting germplasm from some harsh, bleak habitat of the Old World that can broaden the adaptability of perennial ryegrass to something like that of Kentucky bluegrass.

Nature is the master craftsman when it comes to crossing, selecting and perpetuating. While Dr. Funk's series of man-made bluegrass hybridizations are impressive, one might note that useful selections from natural populations are even more abundant among the bluegrasses. However,



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polycrosses engineered by man dominate the fine fescues.

With such breeding techniques being employed, and with fresh sources of germplasm being assembled continuously, certainly turfgrass improvement has only begun. Congratulations to the cultivar breeders are indeed in order for the tremendous turfgrass selection made available to turfgrass managers today. But we can anticipate even more widely adapted, as well as specialized, selections in the future. Even the mere sorting out and proving of what is available today should provide improved turf for many awkward locations, where having good turf is now considered difficult. In the future we can expect turfgrass cultivars that are still more easily and economically maintained.

Robert W. Schery
Lawn Institute

WHY THE MUSSER FOUNDATION IS NEEDED Part I

Fred V. Grau, President

The Musser International Turfgrass Foundation is the only organization that is dedicated solely to basic research and education of talented students on the graduate level. Our goals are (1) to help develop needed research data, (2) to add to the world's turfgrass literature, and (3) most importantly, to train potential leaders in turfgrass science.

Ever since pioneer researcher, teacher, lecturer, and author H. B. Musser died in 1968 my colleagues and I have been striving to convince the entire turfgrass industry that they should help to build a permanent Fellowship Fund which, when invested, will perpetually provide for Fellowship grants leading to advanced degrees at turf-oriented land grant institutions. The logic of our efforts should be obvious. Without trained leaders to plan and conduct research, the research grant money would accomplish little.

It is axiomatic that, in helping a graduate student earn his Ph.D. degree, valuable research data will have been accumulated the world's turfgrass literature will have been enriched, and future money grants for "quickie" research will have far greater impact because a trained leader will be in charge.

We are dedicated to supporting only FELLOWSHIPS because the student who accepts the challenge for three years of intensive study is committed to this field of endeavor. Scholarships are simply money gifts or "rewards" which leave the recipient free to go his own way. Research grants are left to others since they usually finance for a short time a one-time study of a product or a practice using staff members and technical workers. We believe that FELLOWSHIPS help to build a more secure future for all turfgrass interests.

We cover all turf including golf, lawn, airfield, athletic, cemetery, park, and roadside. We promote basic research because the principles of turfgrass establishment and management are common to all disciplines.

When turfgrass history is written let it be said that the Musser Foundation devoted its energies to developing leaders, leaving the service work to those organizations whose existence depends upon continued field contacts. In this respect we are unique.

Yes, the Musser Foundation, international in scope, is needed. When scientists such as Beard, Burton, Daniel, Duich, Funk, Watson and others retire or step out of the picture they deserve to have their places filled with others equally competent. In no other way can we adequately honor their accomplishments.

The Musser Foundation is a charitable and educational, tax-exempt organization. The income from investments is used to help talented graduate students attain their Ph.D. degrees so that the turfgrass industry

will be assured of continuity in leadership. The true beneficiaries of this long-range altruistic effort are the people who love turf and use it for pleasure and for profit. To make the future secure we need to invest in the future.

Those who believe that turf has a future, and who want to make it more secure, have several ways in which they can contribute:

- (1) Make a free-will cash contribution (tax-free)
- (2) Add a name to our "Memorial Roll of Honor" through a memorial gift to honor a departed friend or loved one
- (3) Help to organize a "Musser Tournament," proceeds to go to the Fellowship Fund
- (4) Industry grants, tax-free
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P. O. Box AA
College Park, MD 20740-1014
Phone: 301-864-0090



Ed Fischer, Moderator



Speaker - Jim Evans at Clinic



Ken Wright & Paul Voykin. Paul was guest speaker at the Bayview G.C. in Thornhill, Canada during the meeting. Ken Wright is Supt. at Woodridge G.C.



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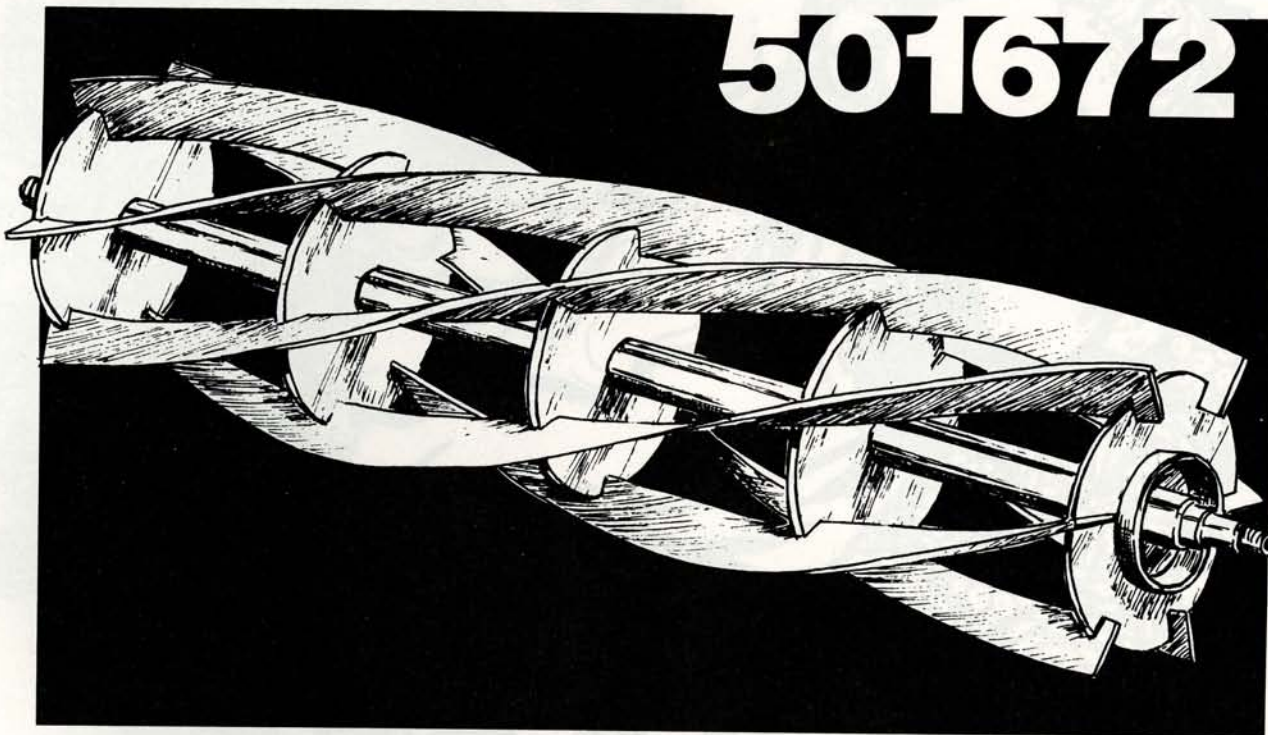


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Larry Schmidt



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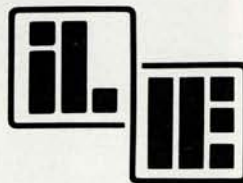
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