Dye and many other golf architects are trying to "hide" cart paths in their newer designs. "I am experimenting with a cul-de-sac system which would carry the golfers well away from the fairways, through woods or whatever, then bring them back in a series of cul-de-sacs. The car paths are changing golf course architecture, but I don't think too detrimentally."

Hurdzan concludes, "We're told we need cars because there aren't enough caddies. Again, turn it around! Perhaps there aren't enough caddies because the clubs make more money from cars. Furthermore, I'm afraid that we're losing future players at the entry level due to the lack of caddie programs. This can be addressed, easily."

Credit: American Society of Golf Course Architects

ARCHITECTS CITE DOBEREINER

Peter Dobereiner, who since 1964 has traveled more than a million miles and written twice as many words on golf for The Londer Observer, has been named the 1985 recipient of the Donald Ross Award by the American Society of Golf Course Architects.

Dobereiner, who also has authored ten books and contributes to both GOLF DIGEST and GOLF WORLD, will be honored for his raising the awareness level of golf course architecture at the Ross Award Banquet to be held at the Park Country House in Killarney, Ireland, on April 20 during the annual meeting of the ASGCA.

Society members will visit nine of the most famous Irish courses during the meeting, as well as hear from local architects, superintendents and agronomists.

Previous winners of the Donald Ross Award include: Robert Trent Jones, Herbert Wind, Herb and Joe Graffis, Joe Dey, Gerald Micklem, Gov. James Rhodes of Ohio, Geoffrey Cornish, Al Radko and Dinah Shore.

Credit: American Society of Golf Course Architects

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Model 04425
Backlapping Kit for Greensmaster 300.

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USGA REGIONAL CONFERENCE
in cooperation with the Iowa Golf Course Superintendents Association and the Iowa Golf Association.

Tuesday
April 2, 1985
The Wakonda Club
3915 Fleur Drive
Des Moines, Iowa

8:00 REGISTRATION—Coffee
9:00 WELCOME
Dr. Don O. Newland, Member
USGA Green Section Committee
Des Moines, Iowa

9:15 PERSONNEL MANAGEMENT BEGINS WITH PERSONAL MANAGEMENT
Paul Boizelle, Golf Course Superintendent
Onwentsia Club
Lake Forest, Illinois

9:45 SELECTING THE RIGHT GRASSES
Larry Vetter, Manager
Medalist Turf Products Division
Northrup King Company
Minneapolis, Minnesota

10:15 BREAK

10:30 COOPERATION—THE KEY TO BETTER WORKING RELATIONSHIPS
Don Essig, Ill. Golf Professional and Owner
The Hoosier Links
New Palestine, Indiana

11:00 COURSE MARKING, DEFINITION AND SET-UP—PART I
James A. Farrell, Mid-Continent Manager
USGA Regional Affairs
Crystal Lake, Illinois

11:30 YOUR STATE GOLF ASSOCIATION—WHAT IT IS—WHAT IT DOES
Joe Chapman, Executive Director
Iowa Golf Association
Cedar Rapids, Iowa

12:00 LUNCHEON

1:30 BREEDING OF NATIVE GRASSES FOR GOLF COURSE USE
Dr. Terry Riordan, Associate Professor
Turfgrass Plant Breeder
University of Nebraska—Lincoln
Lincoln, Nebraska

2:00 COURSE MARKING, DEFINITION AND SET-UP—PART II
James A. Farrell, Mid-Continent Manager
USGA Regional Affairs
Crystal Lake, Illinois

2:30 YOU CAN RUN BUT YOU CAN'T HIDE
James M. Latham, Jr., Great Lakes Director
USGA Green Section
Brown Deer, Wisconsin

3:00 U.S. OPEN FILM
"Fuzzy Flew at Winged Foot"

3:35 QUESTIONS, ANSWERS AND ADJOURN

RESERVATION FORM

USGA REGIONAL CONFERENCE
Tuesday, April 2, 1985

Reservations should be made by March 27

Registration forms to be Mailed to:
James A. Farrell
P.O. Box 616
Crystal Lake, Illinois 60014
(815) 459-5590

Gentlemen: Jackets Required

Enclose $30.00 for each luncheon reservation—$35.00 at the door—payable to United States Golf Association.

Names and Titles

Club

Address         City   State   Zip

Lunch and Registration Fee Enclosed $30.00
<table>
<thead>
<tr>
<th>Feature</th>
<th>Rain-Bird 91-95 DR Series</th>
<th>Toro 674-06 Series</th>
<th>Toro 694-06 Series</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet Size</td>
<td>11/2&quot; FPT</td>
<td>11/2&quot; FPT</td>
<td>11/2&quot; FPT</td>
<td>Less pressure loss—cuts pumping cost</td>
</tr>
<tr>
<td>Rotation Speed (60 PSI)</td>
<td>1:30 minutes</td>
<td>3:07 minutes</td>
<td>3:07 minutes</td>
<td>Faster rotation speeds—less time to syringe</td>
</tr>
<tr>
<td>Pop-Stroke</td>
<td>3&quot;</td>
<td>1½&quot;</td>
<td>½&quot;</td>
<td>Higher pop-up height—less matting around head</td>
</tr>
<tr>
<td>Arc—Adjustable</td>
<td>Yes 30-360 degrees</td>
<td>No</td>
<td>No</td>
<td>Adjustable arc is more versatile Model #95DR is full or part circle</td>
</tr>
<tr>
<td>Valve Type</td>
<td>Diaphragm</td>
<td>Piston</td>
<td>Piston</td>
<td>Diaphragm valve—less flow loss, cuts pumping cost, less sticking, cuts maintenance cost. Longer life 10X piston.</td>
</tr>
<tr>
<td>Internal Porting</td>
<td>Yes Bleeds water into sprinkler inlet</td>
<td>No Bleeds water into case</td>
<td>No Bleeds water into case</td>
<td>Internal bleed—does away with wet spots around head Case does not fill up with water</td>
</tr>
<tr>
<td>Drive Mechanism</td>
<td>Brass impact</td>
<td>Plastic gears</td>
<td>Plastic gears</td>
<td>Impact drive—has 2 moving parts—less expensive to service &amp; repair. Less pressure loss.</td>
</tr>
<tr>
<td>Pressure Regulation</td>
<td>Field adjustment</td>
<td>Factory set</td>
<td>Factory set</td>
<td>Field adjustment—allows individual head regulation for more even distribution</td>
</tr>
<tr>
<td>Maximum Working Pressure</td>
<td>150 PSI</td>
<td>150 PSI</td>
<td>150 PSI</td>
<td>Impact drive more efficient—less pressure loss thru head, cuts pumping costs</td>
</tr>
<tr>
<td>Energy Efficiency</td>
<td>85%-95%</td>
<td>70%-80%</td>
<td>70%-80%</td>
<td>Saves pumping/power costs</td>
</tr>
<tr>
<td>Pressure Loss Thru Head</td>
<td>&lt; 15.0</td>
<td>&gt;23.0</td>
<td>&gt;20.0</td>
<td></td>
</tr>
<tr>
<td>Positive Retract Spring</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>High Strength Plastic Case</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Cover</td>
<td>Aluminum</td>
<td>Plastic</td>
<td>Plastic</td>
<td></td>
</tr>
<tr>
<td>Manual Override</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Can still operate if power is not available</td>
</tr>
<tr>
<td>Nozzles</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Nozzle Interchangeable</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Impact drive—allows nozzle to be changed without replacing a costly part</td>
</tr>
<tr>
<td>Screen Accessibility From the Top</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Impact drive—allows screen to be removed thru top so head does not have to be replaced from riser</td>
</tr>
<tr>
<td>Self Flushing Valve Seat</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Diaphragm valve—has less hang-ups and sticking, cuts maintenance cost</td>
</tr>
<tr>
<td>Solenoid Grit Filter</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Grit filter—filters water to valve ports, less hang-up problems, cuts maintenance costs</td>
</tr>
<tr>
<td>Solenoid</td>
<td>24V-2W</td>
<td>24V</td>
<td>24V</td>
<td>24V-2W Solenoid requires less power—allows longer runs on smaller wire</td>
</tr>
<tr>
<td>Radius</td>
<td>68'-98'</td>
<td>76'-102'</td>
<td>78'-108'</td>
<td></td>
</tr>
<tr>
<td>GPM Range</td>
<td>28 - 75</td>
<td>31 - 65</td>
<td>45 - 82</td>
<td></td>
</tr>
<tr>
<td>Maximum Spacing</td>
<td>Square 55%</td>
<td>Square 55%</td>
<td>Square 55%</td>
<td></td>
</tr>
<tr>
<td>No Wind</td>
<td>Triangular 60%</td>
<td>Triangular 60%</td>
<td>Triangular 60%</td>
<td></td>
</tr>
<tr>
<td>List Price</td>
<td>$127.00</td>
<td>$133.00</td>
<td>$213.95</td>
<td></td>
</tr>
</tbody>
</table>

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