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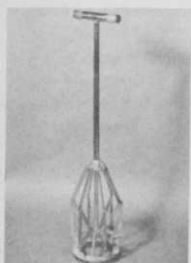
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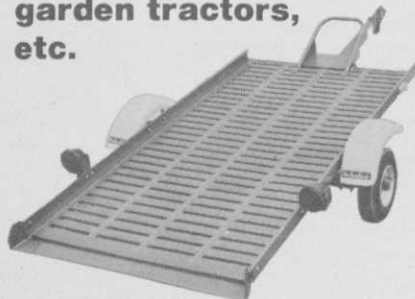
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GRAU *from page 9*

4) zoning restrictions deny you the pleasure/pain of running sheep. I know that sheep crop grass about as closely as that of a mower; that pastures where they graze have turf equivalent to that of excellent fairways; that they eat weeds, too. Let's hear it for the sheep. Who will be the first to report?

Q—*It seems that, in this global search for energy, always we seem to fall back on petroleum. We are not told enough about how alternative forms of energy can be tapped. We know that you can't expound in this limited space, but what can we look forward to, as gas and oil become more scarce and expensive?* (Ohio)

A—I read the other day that the sun in two days pours as much energy on the earth as has been stored in fossil fuel since time began. Solar power can be used to convert sea water into hydrogen (H), which is the cleanest fuel known. When it burns, the "waste" product is water.

Nuclear power also can be used to produce H. Trouble is, there is a prejudice against its use.

Electric power is sheer convenience, but the efficiency is wastefully low. New power plants will cost much more to build because of inflation and sharply increased labor costs, transmission lines and appliances. New fuel cells can produce electric power directly at a high level of efficiency.

Geothermal energy has been with us since the beginning, but man has been slow to learn how to tap this source. Active volcanoes and hot springs show us the way.

The sun is being used to heat buildings and, by heat exchangers, to cool them. We will see more of this development.

The sun is the sole source of energy for the production of crops, forests and everything that grows, walks, crawls, flies or swims. Through photosynthesis, it continually renews plant growth, which is a tremendous source of energy, if only we could learn how to use it.

Methanol (CH₃OH) has been shown to be superior to H in several ways and can be mixed with gasoline to provide better performance at lower cost. Think of methanol as two molecules of hydrogen (H) gas made liquid by one molecule of carbon monoxide (CO). Methanol can be

continued on page 14

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Creslan acrylic fiber is a product of American Cyanamid Company, Wayne, N. J.

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GRAU *from page 12*

produced in huge quantities from any organic source, including farm and municipal wastes (manure, sewage). This is an exciting potential for producing cheap fuel and for cleaning up our environment. Methanol works well in fuel cells. You might want to research the subject of alternative energy sources further by reading *Science*, Vol.182, N. 4119, December 28, 1973, pp. 1299-1304, by T. B. Reed and R. M. Lerner.

Q—*Suppose we were to stop treating our fairways with fungicides and other chemicals, either by choice or by decree, can you predict what might happen?* (Illinois)

A—That is an interesting and wide-ranging question. I am not sure I can answer it completely or in depth. I recall how the late Marshall Farnham looked at an attack of dollarspot on mixed Kentucky blue-bent fairways at the Philadelphia CC some 40 years ago. He actually welcomed the onslaught and explained it this way: "Dollarspot attacks the more susceptible plants, which I don't want anyway. It thins the turf and delays thatch buildup. Golfers hardly notice it and the playing quality is not affected!" I can add that the resistant plants then have a better chance to spread and form a better, more resistant turf. Weeds will increase, but that's not the end of the world. Golfers have hit shots from weedy turf before this advent of selective weed killers and they can do it again. No one will be very happy, but we may have to do some adjusting. Insects will play havoc if uncontrolled. We need to accelerate our research in biological controls, if chemicals are denied us. Also, we must find those grasses that can survive insect infestations. We should be looking for these types every day. To be denied chemicals will be a profound shock, but it won't be the end of golf. □

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