Popular Science AWARD

Popular Science Monthly announces another in its series of Awards presented in recognition of companies and individuals making outstanding contributions to American living in fields of interest to PS readers. The ninth selection of the Popular Science Editorial Board:

Sheldon Coleman and The Coleman Company

The company, whose founder brought light to all outdoors, continues to brighten camping for sportsmen everywhere with new comforts and conveniences. Under the leadership of Sheldon Coleman, the company now makes a wide and growing range of outdoor recreation and camping products that have the same durability, safety, and ease of operation that marked the original Coleman lantern. Sheldon Coleman and the Coleman Company are fitting winners of the Popular Science Award for these outstanding contributions to outdoor living.

EUGENE S. DUFFIELD ERNEST V. HEYN Editor-in-chief President

Smooth

How that fabulous family—the Colemans—made camping a spor you can enjoy in all four seasons

By HERBERT SHULDINER

t seemed like an item that might b doomed as soon as the first electri lines were run in-that gasoline mantl lamp that W. C. Coleman started sellin at the turn of the century when incandes cent electric bulbs were just coming int their own.

Not so. Instead of becoming obsolete it was improved-and the Coleman port able gasoline lantern became Old Reliabl to millions of outdoorsmen. Today' lantern is as modern and indispensabl to the man who likes to rough it as rocket to an astronaut.

Lighting up the woods. Over 18 millio Coleman lanterns have been sold to date with 14 million of them (Coleman est mates) still in use. Certainly these a most indestructible lanterns helped lea camping out of the dark ages. Late Coleman products—stoves, heaters, tents sleeping bags, coolers and jugs, traile campers—have smoothed the modern ver sion of roughing it.

Few people had enough leisure tim to rough it in the company's first decades But Coleman never stopped perfecting outdoor hardware. In fact, it was durin the depression-racked thirties that W. Coleman's oldest son Sheldon took over the firm's research and development pro grams.

He launched the company in th home-heating business and, by 194 Coleman led the nation in the produ-Continue

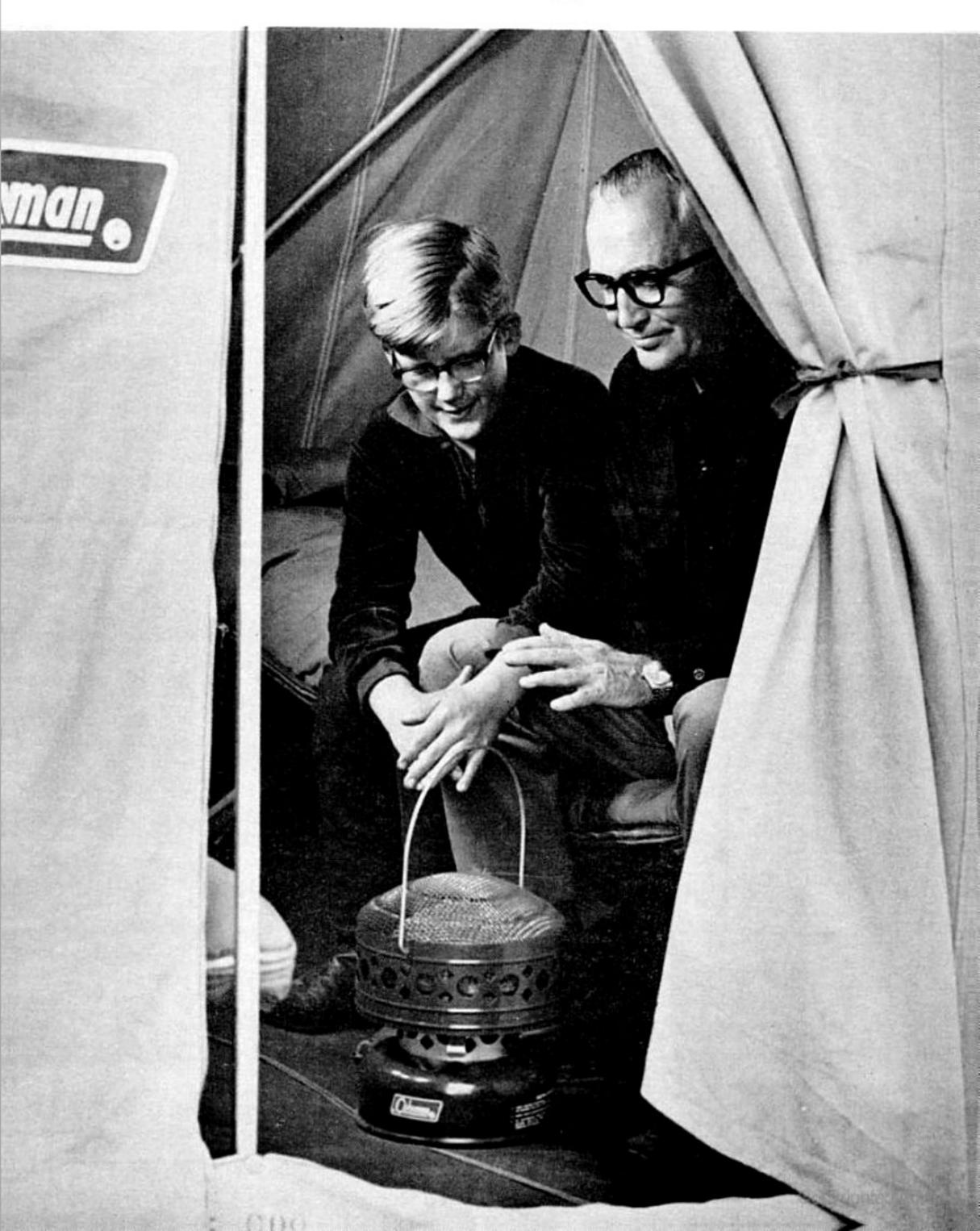
> Sheldon Coleman and son, She don II, test catalytic radiant heat that has no flame. The heat comes in three models: 3,50

BTU, 5,000 BTU, and a unit th

you can adjust to either ratin

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Way to Rough It



tion of gas floor furnaces and was a leading manufacturer of oil space heaters.

Forward into battle. World War II brought these activities to a halt, and Coleman turned its camping-hardware know-how to helping the war effort.

More than a million lanterns and "pock et" stoves (the inspiration of today's one-burner Coleman Sportster stove) traveled with GIs all over the world.

At the same time, Sheldon Coleman prepared the company to meet an ex

> pected post-war demand for outdoor hardware.

> This planning sparked Coleman's growth, making them the largest manufac turer of camping and out ing equipment in the world Their plants turn out 4,00 lanterns (in half a dozer models, one of which burn LP fuel) and 3,000 sport and camp stoves every day. Coleman is also the world's largest producer of portable coolers and ther mal jugs, second largest of tents and sleeping bags Sheldon Colema And says, "We expect to be th first in those areas within three years."

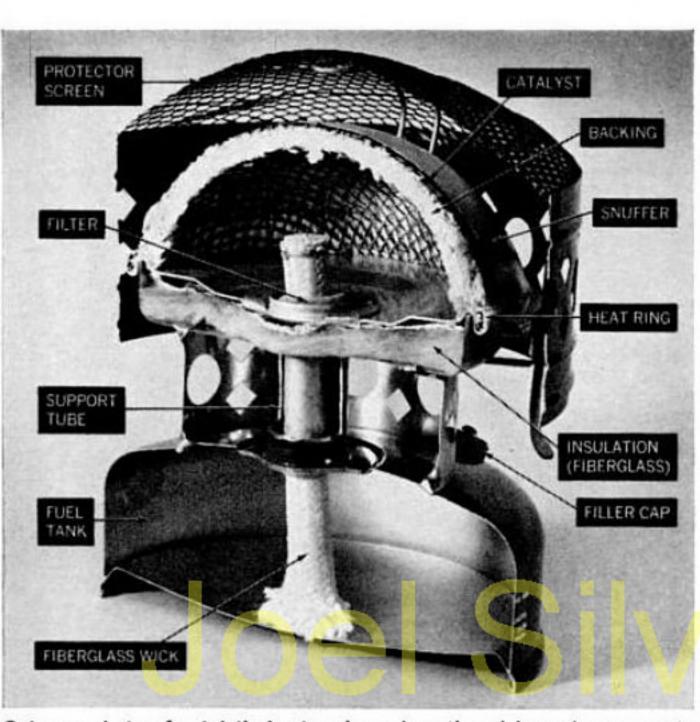
> Instead of resting of these laurels, the company continues to search for new ways to help campers "We're always probing the needs of people who live outdoors," says Coleman.

For years, the need for a way to satisfactorily an safely heat a tent was of To fill this need vious. Coleman launched int new research to perfect catalytic heater. Ther were such heaters around but they had one major defect-their ability to pre vide a full-rated heat ou put diminished as the ten perature plummeted, whe heat was needed most.

Getting hot. A little over two years ago, Colema perfected a white-gasoline burning catalytic heate that could put out its full rated heat potential, r gardless of how low the temperature got.

The biggest advantage

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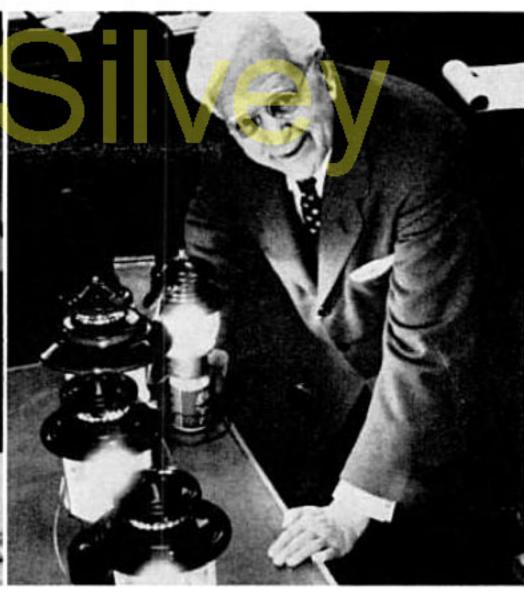


Cutaway photo of catalytic heater shows how the wick carries vapors to the heating head, which has platinum catalyst that burns gas without producing flames. Below, Sheldon Coleman prepares breakfast for his son on regulation folding stove—long a mainstay of the Coleman line.





Efficient little heat maker, the catalytic heater burns up its fuel completely at about half the temperature needed for ordinary combustion.



The founder of the great outdoor-equipment firm, W. C. Coleman, displays some of the lanterns he perfected to provide campers with safe tent lighting.

the catalytic heater is that it's flameless. The heating head is impregnated with a catalyst of platinum dust (see cutaway photo). Combustion ordinarily takes place at about 1,800 degrees F. But the platinum catalyst enables you to get complete combustion at about 800 to 900 degrees—not enough to produce flame.

You can place a tissue on the heater's protector screen and it won't char, let alone catch fire.

How the heater works. Once the head starts burning, gasoline brought up from the tank by the fiberglass wick vaporizes under the head. A dense 5/8-inch refractory backing under the catalyst-impregnated head controls the flow of fuel and distributes the vapor evenly under the head. Outside temperature has little affect on the fuel's viscosity; it continues to flow consistently through the wick, allowing steady combustion.

One filling of fuel will warm you 18 to 20 hours-enough for two nights, depending on the temperature of the space The 5,000-BTU you want to heat. heater will raise the temperature of an eight-by-10-foot tent about 25 degrees above outside temperature. In tighter structures, you'll get more heat; in more ventilated ones, somewhat less. In tents, gets its needed oxygen the heater

through the "breathing" fabric. But if you use the heater in a tight area, be sure to crack a window to replenish the oxygen consumed in combustion.

Besides heating tents, the catalytic heater is ideal for one-car garages, outdoor sheds, and ice-fishing huts. It is also handy for speeding the curing process for certain resins and other repair materials.

The huge success of the catalytic heater has sparked Coleman's current expansion program to meet the ever-growing need for outdoor equipment. can't see how this trend will change," Sheldon Coleman says. "The population is expanding rapidly and people are going to have more leisure time, not less.

"We're working on new materials to provide these people with new and better things. Some, like the four-layered Tri-Temp sleeping bag and the easy-toerect exterior-frame Oasis tents, are two developments of this research."

What other new things will come from the remarkable Colemans can't be fully anticipated, but that their unmistakable label will be seen more frequently in the great outdoors in coming years is pretty certain. They're number one in outdoor equipment, but they keep trying harder. P 5