

**HIGHLIGHTS OF THIS ISSUE**

**How they're engineering the problems out of the Wankel** PAGE 56

Better gas mileage and efficiency, lower production costs, are on the way.

**24 satellites to give global pinpoint navigation** By Wernher von Braun PAGE 60

Planes and ships anywhere can spot their positions within 25 feet!

**Shale oil . . . how soon?** PAGE 80

Deposits in our western states equal the world's known reserves of crude. Bob Gannon reports how we're going to extract it—and it's coming on fast.

**New grace for your entrance** STARTS PAGE 87

Do your own thing while you upgrade your entry with slick new doors, side-lights, decorative panels, bright paint in the right places.

**Solar water heater for your vacation home** PAGE 104

Free hot water—that's what you get when you build this simple system.

COVER PHOTO BY MARC MADOW

**CARS AND DRIVING**

Norbye/Dunne report: Domestic subcompacts meet the Beetle . . . . . 30

How they're engineering the problems out of the Wankel . . . . . 56

What's your spark-plug I.Q.? . . . . . 126

**SCIENCE AND INVENTIONS**

20,000-degree torch that'll melt rock . . . . . 63

A mini-mole for mini-tunnels . . . . . 64

Fast new process forms sapphires and solar cells . . . . . 69

America's Cup super yachts try aluminum hulls . . . . . 78

**SPECIAL REPORT**

Shale oil . . . how soon? . . . . . 80

**SPACE AND AVIATION**

24 satellites to give global pinpoint navigation . . . . . 60

Clipped wings, super flaps make small planes easier to fly . . . . . 66

**OUTDOOR RECREATION**

Kawasaki KZ-400: designed for commuters . . . . . 20

Three for your bike . . . . . 40

Rig your canoe for a quiet power ride . . . . . 106

**What's New DIGEST**

Bobbing bike keeps you in shape . . . 70

Lifesaving bumper . . . . . 71

Solid-state throttle . . . . . 71

Rollercraft takes to the waves . . . . . 72

What's new in boats . . . . . 73

What's new in tools . . . . . 74

What's new in home improvement . . . 75

What's new in electronics . . . . . 76

What's new in cars . . . . . 77

**HOME IMPROVEMENT**

"Plastic wallpaper"—new cure for problem walls . . . . . 84

New grace for your entrance: decorative doors . . . . . 87

Upgrade your entry . . . . . 90

Solar water heater for your vacation home . . . . . 104

New for your windows: add-on sun control . . . . . 125

**PS LEISURE HOME PLAN OF THE MONTH**

Round house on a pedestal takes in all views . . . . . 86

**TOOLS AND TECHNIQUES**

Common-sense guide to caulks and caulking . . . . . 107

A little air compressor for home jobs . . . . . 148

**PS BUYER'S GUIDES**

Late-show watcher's guide to small b&w TV's . . . . . 96

Buyer's guide to drill presses . . . . . 100

**EVERY MONTH**

PS readers talk back . . . . . 6

Detroit report . . . . . 16

New ideas from the inventors . . . . . 18

Science newsfront . . . . . 22

Look and listen . . . . . 22

"Say, Smokey—" . . . . . 44

Recreation roundup . . . . . 46

The view down the road . . . . . 50

PS: what's news . . . . . 52

Wordless workshop . . . . . 55

Shop talk . . . . . 118

Taking care of your car . . . . . 120

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