Founded in 1872 Vol. 187 No. 4

Popular Science

Mechanics and Handicraft Popular Science

Monthly

Ernest V. Heyn Associate Publisher and Editor-in-Chief Kendall W. Goodwyn Managing Editor.

HUBERT LUCKETT Executive Editor

Senior Editor
Alden P. Armagnac
Automotive Editor
Jan P. Norbye
Photography Editor
Everett H. Ortner
Science Editor
Wallace Cloud
Boating Edutor
Jim Roe
Jim Roe
Jim Roe

ROBERT P. STEVENSON Editor, Home and Shop Group

EVERETT H. ORTNER Copy Chief Features Editor W. Stevenson Bacon Electronics Editor Ronald M. Benrey West Coast Editor Wesley S. Griswold European Editor David Scott Home Workshop Editor Charles E. Rhine

Associate Editors
Associate Editors
Frank Dorr, Herbert O. Johansen
Herbert Shuldiner, Ruth Westphal JOHN R. WHITING, Executive Vice-President and Publisher

HARRY SAMUELS Art Director

DEVON FRANCIS
Special Assistant to the Editor

Art Editors Herbert Anthony, Richard J. Meyer Art Associates Frank G. Bland, W. David Houser

Art Production Manager Henry W. Kazmirowski Editorial Assistants Ruth Velazco (Chief)
Ann Dallas
Claire B. Kelly, Janine Molina



"Hot" is the word for the '66 "Hot is the word for the ob-outboards, with four of over 100 hp. Full report. Page 112.



What's going on in basements all over the U.S.? Billiards! Here's guide, Page 108.



Paint peeling? An expert tells you why—and advises on six other major house problems, Page 150.

ALONGON AUGUSTANA AUGUSTAN 28 Pages of New-Car News Color Pictures of the 1966 Models

The Sporty Ones ... and the Luxuries The Intermediates 62 The Compacts · 64

CUSTOM-BUILD YOUR '66 CAR ON THE ORDER FORM

The Line-Up: New Models vs. '65s · 65

At Ford Models vs. '65s · 65 At Ford Motor: Brakes and Power • 66 At Chrysler Corp.: Middle Cars · 71 At CM: More Variety • 75 At American Motors: More Luxury · 83

PLUS Detroit Report • 50

CARS AND "Say, Smokey_" · 14 Turbine Drives Chevy Truck · 88 How Fast Will We Drive? • 98

Rescued—200 Feet Underground · 89

Before Value 108 The Main Cars Build Dream Careers • 170

1965 by Popular Science Publishing Co., Inc. All rights reserved.

HOME AND SHOP

Build a Gas-Powered Mulcher • 136 Shop Talk · 141 Three Woodworking Projects • 142 Saw Guide for Cutting Big Panels • 144 How to Make Glue Work Better • 146 Save Your Split Trees Now • 148 Roger Whitman on Home Repairs • 150 Wiring New Light Fixtures • 154 What's New in Tools • 161 2 Shop Tools with Low Price Tag • 162 Variable Speeds: Big Tool News • 164 New Way to Insulate a Basement • 168

SPACE AND AVIATION

Truth About Our Missile Defense · 84 von Braun: How We Steer Rockets • 94 Soft Landing on the Moon • 102

SCIENCE AND INVENTION

Science Newsfront • 23 Fiery Birth of a New Island • 92 Doughnut Decks Encircle Store • 125 New Ideas from the Inventors • 134 Now: A Bullet Without a Case • 173

TV, RADIO, AND ELECTRONICS What's New in Electronics • 129 Installing Your Own Car Radio • 130 TV Camera You Build from a Kit • 132

BOATS AND BOATING

Hotter, Handier, Quieter Motors • 112 What's New in Boating • 118

PHOTOGRAPHY

What's New in Photography • 119 A's to O's About Camera Lenses • 120

AUTO REPAIR

Gus Runs Into an Odd Customer • 174 Hints from the Model Garage • 182

PICTURE NEWS

Plastic Igloo Shelters Campers • 106 Giant Statue Carved from Foam • 124

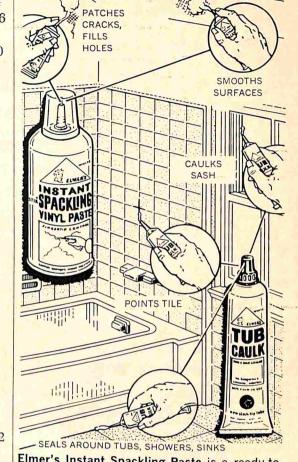
3

EVERY MONTH

PS Readers Talk Back • 6 I'd Like to See Them Make • 96 Wordless Workshop • 188

24 Printed in U.S.A.

Now Elmer's helps you fill, caulk, seal, patch



Elmer's Instant Spackling Paste is a ready-touse compound that puts an end to wasteful and messy mixing. Just press the stem of the aerosol container for the right amount to fill holes, cracks and low spots in plaster, wood or composition walls before painting. Dries in minutes and sands to a feather edge.

Elmer's Tub Caulk is an elastic sealer, ideal for waterproofing jobs in kitchen, laundry and bath. The handy squeeze tube delivers a satin-white bead that won't discolor or crumble. Simply remove excess with water, no solvents needed. Safe for any surface, nontoxic and odorless. The Borden Chemical Company, 350 Madison Ave., N.Y., N.Y. 10017 (Available in Canada.)



Popular Scients Popular Scients Contract Contrac

HOW YOU'LL DRIVE
120 M.P.H.

LEGALLY!

41165 492592AND3222AG
G D ANDERSON
3222 ARTHUR ST NE
MINNEAPOLIS
18 M

CARS: 28 Exciting Pages of Facts, Photos, and Expert Opinion

- Our Anti-missile Missiles—Are They Ready?
- Build Your Own Garden Mulcher
- What Makes Stan Musial THE MAN?
- 7 Most-Needed Home Repairs
- · What's Coming in '66 Outboards
- How to Wire Lighting Fixtures