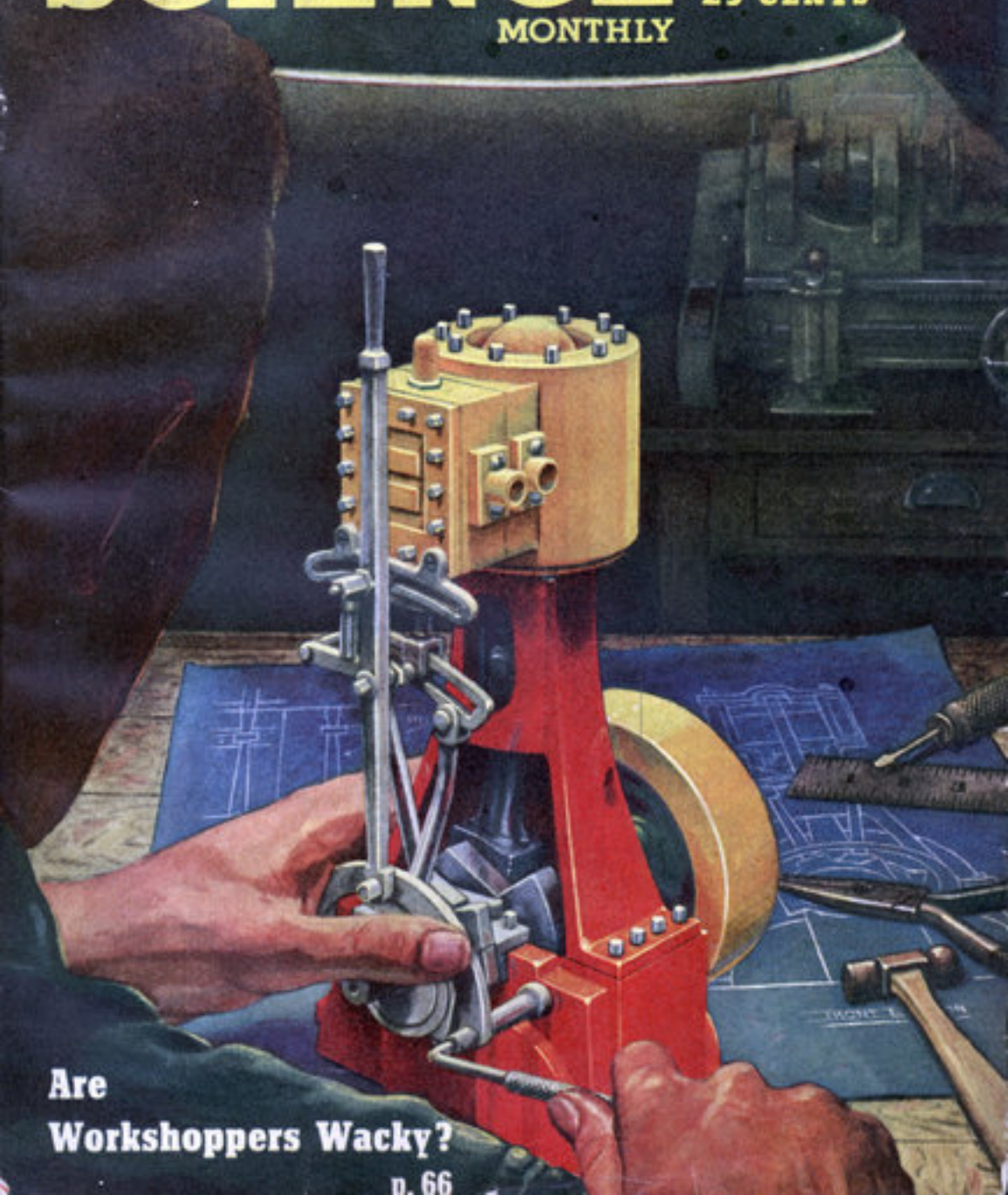


POPULAR SCIENCE

DEC. 1946
25 CENTS

MONTHLY



**Are
Workshoppers Wacky?**

p. 66

The 19-inch station wagon at right has a hardwood body like an original. The doors open and close and there are enough seats for a whole doll family. Made by Buddy "L" Toys, of Glens Falls, N. Y. About \$6.



At left: A calliope for the nursery circus makes music electronically with regular radio tubes. Produced by Tee Gee Metal Industries, of Brooklyn, N. Y., it has sharps and flats to familiarize a child with the piano keyboard. About \$20.

The Return

This year's mechanical marvels are sturdier, more realistic—and more expensive.



At left: This 8½-lb. racing car is driven at speeds of 75 to 90 m.p.h. by its two-cycle gasoline motor. The cast parts are magnesium; the tires semi-pneumatic. It is manufactured by Dooling Bros., of Los Angeles, Calif. Body, \$45; engine from \$22 to \$35 more, depending on type.

At right: When Junior pulls the string, Flippo will flounder along on his flippers across the floor, spinning a block on his nose. Flippo, who has no springs or wheels, is manufactured by the Noma Electric Corp., of New York. About \$2.

At right: This streamlined ship, unlike many models, is a liner of the future, not the past. The two-foot E-Z Craft Model comes as a kit of prefabricated parts to be assembled and painted. About \$3.





The sturdy little "Buzza" choo-choo, above, goes 'round and 'round and 'round on a self-contained flashlight battery. The current vibrates a spring shoe in the engine that pushes against the notched track. No wires or winding. About \$5.

A child will find himself making invisible ink before he can say "potassium thiocyanate" with Lionel's new Chem-Lab, above. A comic book, each page explaining a chemical experiment, carries him along to the story's conclusion. About \$8.

of the TOYS





New scooters. At left: A three-wheel model made by the Tennessee Aircraft Corp. About \$15. Above: A ratchet-drive model made by Coaster Craft Scooter. About \$15.

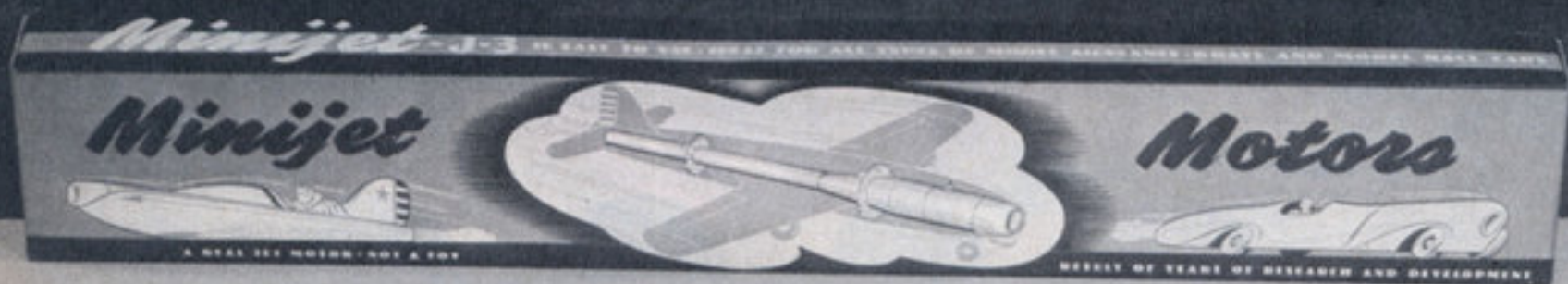
Below: This 26-pound, 40-inch-long "handcar" operates like the real thing—by moving its hand levers forward and backward. It is made by the Kalamazoo Mfg. Co. About \$18.

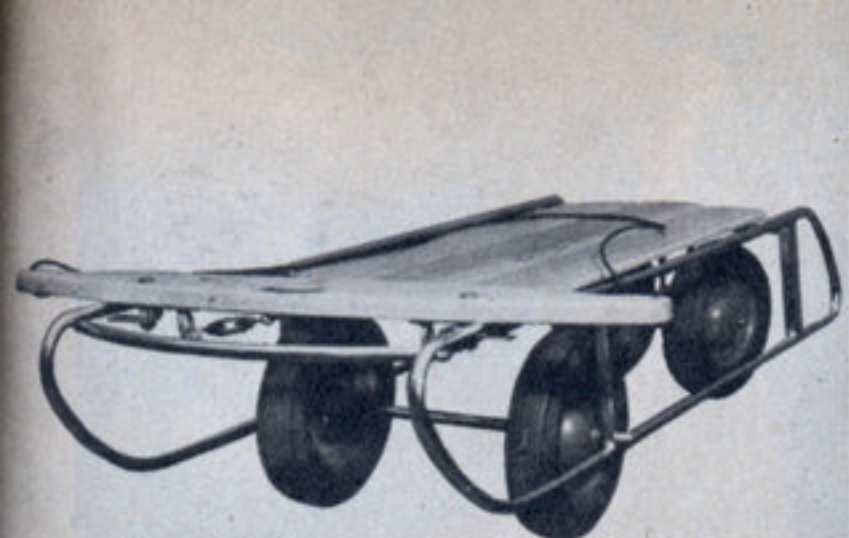


Below: This miniature reaction engine is made by Minijet Motors for model planes, racing cars and speedboats. It uses regular gasoline, has a three-pound thrust, weighs 16 ounces. About \$35.

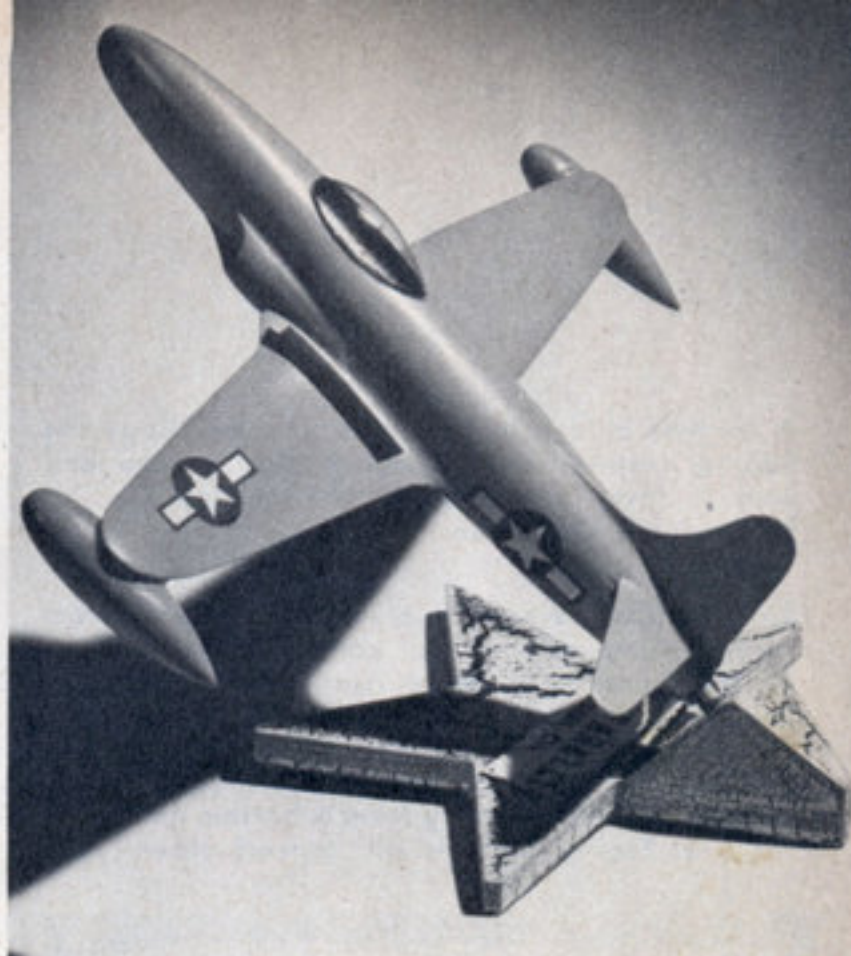


Above: Bridges, skyscrapers and a variety of other structures can be built with this aluminum construction set. It includes a riveting tool and blueprints. It is a Fox Toy Co. product. About \$3.





Above: In the summer the Sledmobile can be used as a wagon and in the winter, with its cotter-pinned wheels removed, as a sled. It's a space saver—and handy. About \$30.



At right: Keeping up with the times, model-airplane builders now stress jet planes. Mel Farrell's Shooting Star kit is made to scale. About 75 cents.

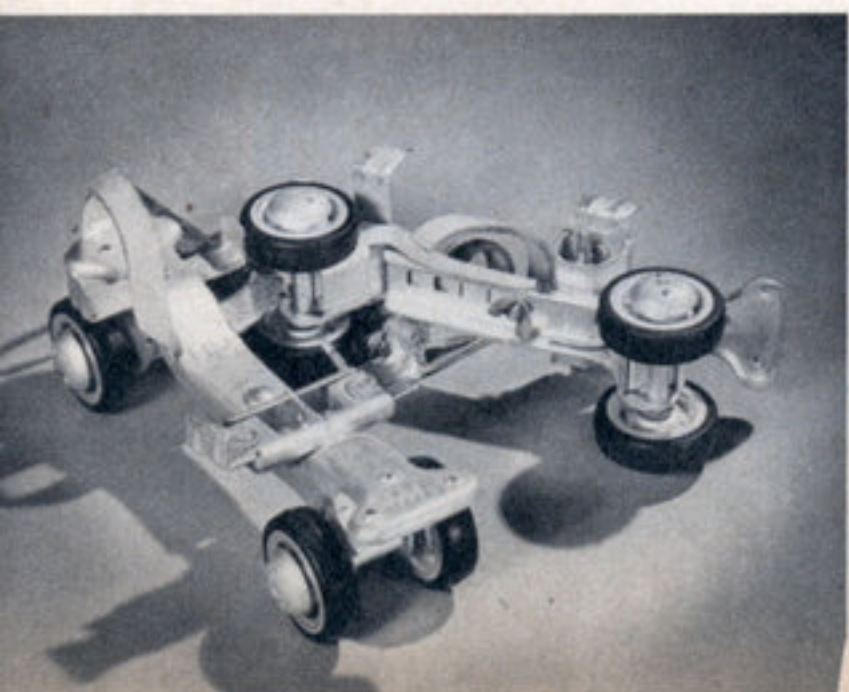
Below: Precision-molded for balance, with a smooth surface that reduces air and point-of-contact friction, the plastic top is a marathon spinner. Made by Plastic Molded Products, Inc. About 50 cents.



Below: This three-quarter-size telephone set can be used for room-to-room calls. Flashlight batteries supply its current. Pengo, Inc., makes the set, which includes 50 feet of wire. About \$12.



Below: Knee-action wheels are featured in the Keeco Flyer aluminum roller skates. A pair of the skates weighs a pound, needs no oil. About \$7.50.

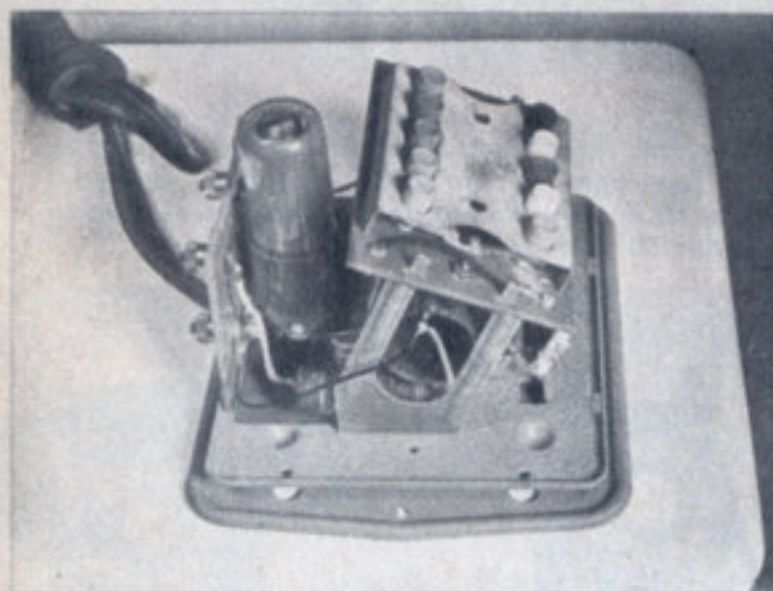


Below: The 8½-pound McCoy car has gone 116.4 m.p.h. A ram-air-intake gas engine costs from \$22 to \$35; the car, without engine, about \$42.50.

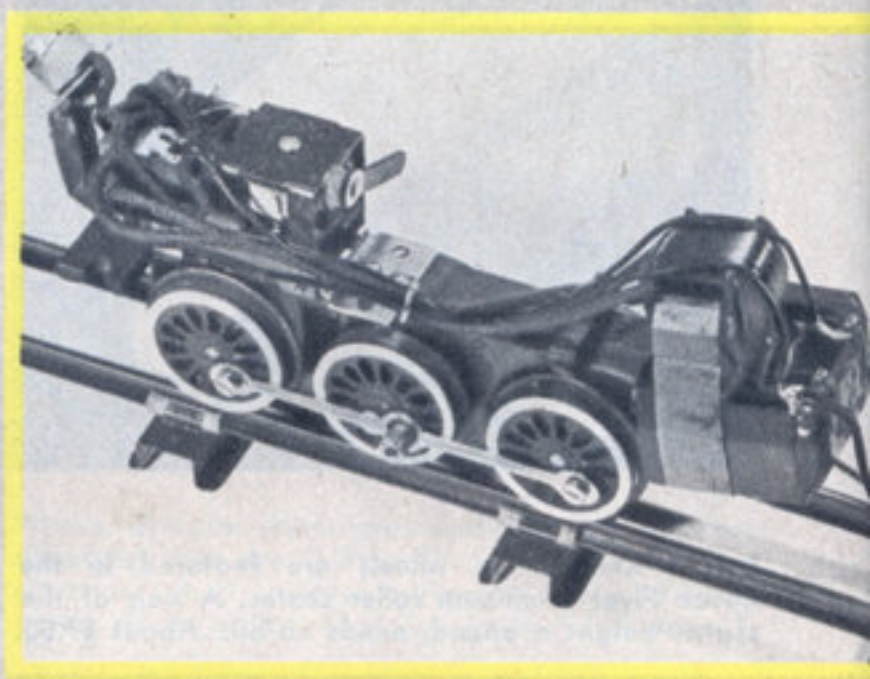


A magnet hidden in his mouth enables Nippy the Pup to snap at a metal-cored plastic bone and hold it fast. Made by Winchester Toy Co., of Philadelphia. About \$6.

Lionel trains have gone electronic. Ten different medium-frequency waves, controlled by buttons on the transformer below, stop and start trains, couple and uncouple cars, sound the whistle, and activate unloading devices—all anywhere along the line. The tiny receivers are no bigger than a watch. The smoke-puffing train in bottom photo sells for \$75. Service stations will convert older types.



Below: Gilbert's American Flyer trains are now powered by motors developed to operate Grumman Hellcat wing flaps. The locomotives smoke, too.





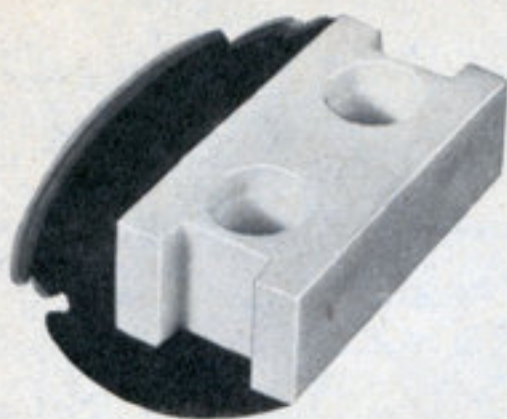
Below: The scale-model American Flyer cars are plastic and weigh only one-third as much as metal cars, permitting longer, more realistic trains.



Above: From England come these miniatures of standard English automobiles, powered by spring motors. They are made by Tri-Ang Minic Lines Bros., Ltd., of London. The larger types, \$2; the smaller, \$1.25.

This scale-model bucket loader works just like an original. The model earth hauler dumps its load when a lever is pressed. The Charles W. Doepke Mfg. Co., of Cincinnati is not yet in full production. Bucket loader, about \$14; earth hauler, \$12.75.





Latent construction talents of the playroom set can be developed—if father doesn't steal the act—with the Vinylite plastic building sets produced by the Du Page Plastics Co. A complete village (upper right) of 30 buildings can be built with plastic bricks (above), scaled $\frac{1}{4}$ inch to one foot. In building, dowels are inserted in a perforated baseboard and the blocks are slipped on the dowels. The village comes with homes, stores, factory, public buildings, gas station, theater, hamburger stand, airport building and a real electric-light plant. Then there are windows, doors, shutters, flower boxes, imitation glass bricks, sandpaper strips for streets, and toweling to represent grass and shrubbery. The boy at right is building a typical home. Below is a wall showing the supporting dowels. The sets come in 10 sizes, the smallest with 400 pieces for \$4, the largest with 3,500 pieces for \$27.50.

