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Hey, Kids! Imagine Getting Paid For Playing With Toy Trains!

Some years ago, an elderly lady ended her tour of the test model through all sorts 'Here', she says, "Here's YOUR the A. C. Gilbert plant in a little room where a man was of tricks to make sure it is just present!" busily running a miniature engine around a tiny track.

As she left, she shook her head in disbelief.

"Mr. Gilbert," she said, "Do you mean to tell me the die-makers so mass-producyou actually pay this young man for playing with toy tion molds can be cast

trains all day long?" liam Russell Smith, creative en- was coming down anyway just about what it costs to bring out is priced at \$32.50. gineer, who for 19 years has to see the set-up.

seasons, can put out 1,500 trains had the station model!" ances, but the trains are the for A. C. Gilbert. bulk of the business (about 75,

Tall, spare Smitty, now 61 like Santa Claus, but he has younger, to think with him for thousands of children-and their fathers.

morning because Pop is hogging closely guarded Gilbert plant. Neither Smitty nor Gabe is a

the show. To such frustrated railroad get that way?

ways looking for an easy way to what. do something. And you'd better Visitors must obtain special "I don't know why," he says 'em-so trains are getting small-

FAIRLY GOOD, ANYWAY

"Tell you what I mean: train business). I was offering of the market. train from Philadelphia, not at-5 sort of job. just riding.

destinations and sounds of the said.

such a station.

"'I do.' I said.

you now to see it,' he said.

idea a few hours!

know this has got to be done and take it to the draftsmen for spend \$500 in an hour. with a recording and it just hap-polishing. The revised sketch "Then, of course, Pop won't said. pens I broke the only record I goes to the model-maker for a let the kids play with the train." had while I was testing this out. test model. Let me get another one rigged "By this time, we've probably and began to laugh. up and then come down.'

sweating blood trying to figure ing room. have the record yet.

den. I had it. It was 2 o'clock Gabe said.

been thinking up new ideas for "'Come ahead,' I told him. I Gilbert's multi-million dollar line worked all that day and the next "is to get used to doing things gines, made as long ago as 1871, , night and most of the next day, the way they aren't supposed to were more than two feet long. The Gilbert plant, which em. He showed up in the afternoon be done. Now some people can They ran with live steam from

for chemistry sets, erector sets his Philadelphia home and came here once. He's one of the best wet batteries as most homes and household electrical appli- to New Haven to think full-time men in his field, but he went by were not wired for electricity in

For ten years, he worked alone per cent, according to Smitty). but nine years ago he chose Ga-

Creative Engineer. NO AD- it for him. many children can't get near MITTANCE. For this is the their new trains on Christmas most protected spot in the whole going."

HIGHLY SECRET

be a pretty good liar, too!" badges at the main desk if they now. "I just always wanted to er, too." back rooms of the plant. And it Gabe was an artist, making undercarriages of steel; bodies was in 1937 just after they'd where Smitty and Gabe are bert's. working two or three years ahead

them a signal device I'd figured Creative engineering for toy enough neither has ever tested out in my basement. I rode the trains is no 40-hour-week, home- a new idea on his child, even colled. They can't be more than

really looking out the window, "I remember when we were "Mr. Gilbert usually decides oo slight to give a child a shock. "Suddenly I got an idea about engines. Smitty had been ill and has a real gift of knowing what those rails and not feel anya talking station with an an- was in a Boston Hospital. I was will go over," Smitty said. nouncer calling out the train's here alone, working late," Gabe Perhaps, after all, a grown One big change is in accesso-

"So after I'd agreed with Gil- an idea. So we chewed it over steam engines sell much faster accessories. Now accessories bert's about the signal, I asked and I conducted the experiments than diesels do, although few of sound, mechanical moving ob-

"'That's terrific,' their chief "Sometimes we just sit in here action. engineer said. 'Who's got that?' and drink coffee for weeks. All "A kid comes in, he just wants

run into a few bugs and have "My wife works at Gilbert's, ever did," he says. "I think he smelled a rat, be- to start over," Smitty said. But too, so one Christmas she came cause he called me every day, finally a workable rough model home with a nice little lay-out

simplifying.

around in bed and all of a sud- counts. We revise for a nickel," came in from getting dinner and tervals.

proved, blueprints are sent to his head.

a real one!" Smitty said.

ploys up to 2,000 workers in peak and I was pretty well out-but I think that way and others just alcohol lamps.

FAITH VITAL

"The greatest thing in this trains. briel Monaco, some 20 years business is faith and Mr. Gil-Now, the two pool their brains ways had plenty of that. No ment and the scale has, been helped make Christmas merry behind a heavy door marked with matter what I tell nim, he be-dropping steadily. Toys used to a forbidding sign. W. R. Smith, lieves me and by golly we make be one-half inch to the foot; then

"It's his faith that keeps us

The toy field is highly compet- was a construction manager for just a fraction larger than oneitive and manufacturers must a large cloth manufacturing firm eighth of an inch to a foot. like Seventh Heaven. How did he prepare new models months be- for years. When his mother left "You can make quite a layfore they are to appear in the him a small estate, he quit his out with these trains on a table-"To be a good inventor, you've stores. Consequently, Gilbert's job, borrowed \$1,000, and began top," he said. "Houses are getgot to be a darn lazy guy-al- is a little wary about who sees making toy trains in his base- ting smaller and smaller-they ment.

are to be admitted to any of the try my hand at little trains."

takes even more special permis- industrial models for various of high-impact plastic and they "First time I came to Gilbert sion to get a peep into the room firms before he came to Gil- run on tin-plated steel rails. The

Gabe has one boy, but oddly transformer. when the families were young.

working on getting sound in the whether to go ahead or not-he ("You could put your tongue on

such station-I'd only had the Christmas package like this: that go into cars, engines that tow. Smitty and Gabe make rough smoke and puff and whistle and

Gabe suddenly looked sheep

ing shoes for me.

saw the boy just sitting on a Smitty hit on a method just

Smitty hefted a tiny, eight-Once the test model is ap- inch engine in his hand and shook

PRECISION INSTRUMENT

"Trouble is, these aren't toys "It costs us about \$200,000 to any more. This is a precision The "young man" was Wil- about any special recording-he bring out a new engine-that's instrument." The engine he held

Toy trains are growing small-"The main thing," Smitty said, er and smaller. The first en-

In 1890, the first electric trains a day. Gilbert's is well-known Shortly after that, Smitty left "We had a real top engineer in were introduced. They ran on the rules and we can't do that, those days. These, too, were giants compared to modern

Toy engines and cars are scale bert (A. C. Gilbert, Sr.) has al- models of the real railroad equipthree-eighths; then one-fourth.

Now the usual scale is three sixteenths of an inch to a foot. But Smitty is much taken with college-trained engineer. Smitty an even smaller size, 9/64ths, or

have to or nobody could afford

The engines and cars have electricity is sent through the Emitty has six children and track by the remote-control

Voltages are strictly convolts and most are 7 to 15-

thing," Smitty said. man is a better tester than a ries. Nineteen years ago when engine starting up and pulling "About 11 o'clock the phone child because fathers do almost Smitty came to Gilbert's, Amerrang. It was Smitty. He had all the buying. For instance, toy ican Flyers had practically no them what they would think of while he listened over the phone. the younger generation have jects, stations, trees, shrubs, tun-"Next day, we had our whistle. ever seen a real steam engine in nels and such scenery are big business, he said.

Smitty gestured to a tiny enof a sudden, we get our idea and a train to run around," Smitty gine, belching smoke from its "'Okay, I'll come back with we're off . . . working like crazy. said. "But his old man-he miniature smoke-stack and An idea progresses from Gabe wants the works . . . talking sta- charging busily around a table "Of course, I didn't have any and Smitty's heads to a child's tions, walking brakemen, cows with a string of little cars in

"We're the only ones to have "'Well, now,' I told him, 'You sketches of a new project and all the rest! I've seen a man the built-in sounds and smoke in the little size engines," Smitty

The smoke is very dear to his

"That's the greatest thing I

BAFFLING PROBLEM

Smoke was a baffling probasking about the record. I was comes into the creative engineer- for the boy. She had some bowl- lem to toy trainmen for years and years, he said. The railout how to set the thing up and Then Smitty and Gabe pick it "Well, I set up the train and road companies who set up mod-I kept telling him, no, I didn't apart, condensing, improving, worked it around to make sure el train displays used to hire the kinks were out and . . . well, people to stand behind a screen "The tenth night I was tossing "In toy making, every penny you know how it is. My wife and blow cigarette smoke at in-

in the morning, but I went racing When the two are satisfied, chair watching me on my hands before the war, but he had to down to the basement and start- the draftsmen are called in to and knees playing with his train, wait several years to see his draw full blueprints. Then a "She just looked for a minute, first smoking engine because "The engineer called that aft- test model is made from the then she picked up my bowling Gilbert's highly skilled workers ernoon and said he didn't care prints. Gabe and Smitty then run shoes and gave them to the kid. were immediately put on defense work when World War II erupted.

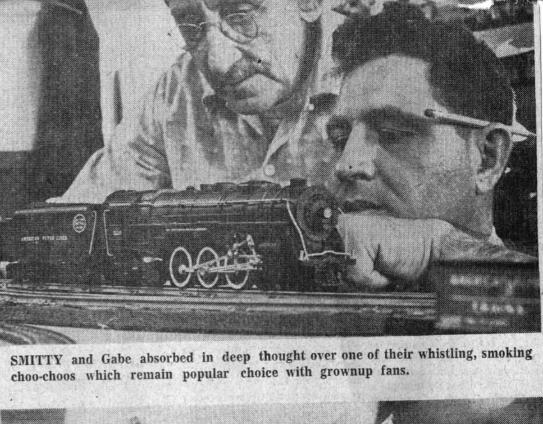
Gilbert smoke is made by bringing a hot wire into contact with twisted fibre-glass soaked with oil. The wire moves back and forth with the wheels, timing the puffs of smoke according to the engine speed.

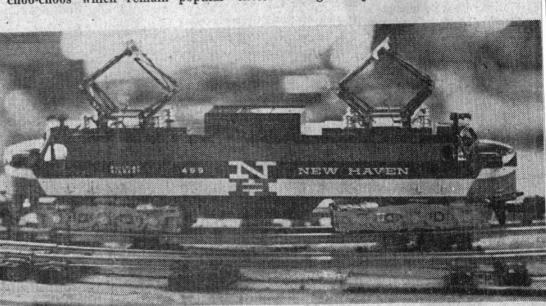
"The oil is a mineral oil base," Gabe said. "The kids are always swallowing the smoke capsules, so we have to be careful what we put in them. This way all they get is a free physic!"

The fibre glass is coiled in a little compartment just below the funnel. Extra oil capsules

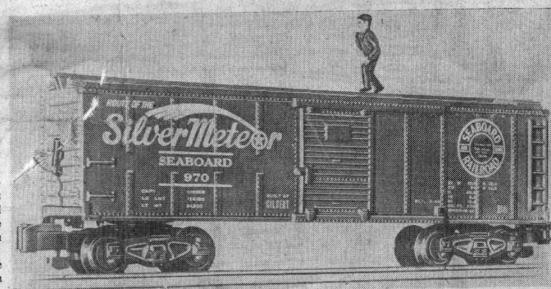
than engineering. When Gilbert's real pro. 'Gee, that's good! Who's to Gilbert's. put out a big new metropolitan that?' everybody said. to make the recording.

"Well, I got an actor-for \$50 sounds are done with a vibrator but when I brought it back, they is now in demand as a super- children available this year are on in the real field. didn't like it. So I tried another duper tweeter on special Hi-Fi "Smitty, the walking brakeman," "This is all imagination," one, but they didn't like that, sets, Smitty said.





AFTER Mrs. Pat McGinnis repainted New Haven locos Chinese red and white, both major mini-train builders adopted them. This is American Flyer.



ANOTHER innovation here this year is Smitty, the walking brakeman, who scurries back and forth while Seaboard box car highballs over rails.



PART of Gilbert's test line. It costs as much to bring out a new 'toy' loco as it does to build a real one, now that precision is all-important.

are sold to keep the wick prop- myself,' I figured, so I did. When even know the number. The tosses minute milk cans from the I brought it back, I told them patents are taken out in their car to the platform; Joe and Sometimes a creative engineer this was a \$75-an-hour man, a names and they assign them over to Gilbert's.

Car to the platform; Joe and to Gilbert's

station with a booming announce- "'You just saved yourselves were coming out this Christmas ers of engines without built-in ment of main-line destinations, \$75,' I told 'em. 'That's me.' " without looking in the catalog. sound effects. Smitty was told to hire an actor Sometimes inventions have a "We're working so far ahead Neither Smitty nor Gabe could double use. The toy engines' of ourselves," Smitty explained. say what inspires them to in-

SOME NEW ONES

In fact, the two couldn't say ber; and billboards with built-in what new inventions of theirs whistles or diesel horns for own-

vent. Neither goes riding around an hour-to make the record, and little speaker. The speaker Some of the Smitty-Gabe brain- on railroads to see what is going

a little figure that marches Smitty said. "You've got it or By now, Smitty and Gabe have around the top of a toy car; a you haven't." many patents that they don't milkman car where a tiny figure They have.

SMITTY says part of his job is 'being lazy'; as Raymond Smith, engineering director

ough, he does look relaxed w project.