

### Like Gold Dust

Imagine gold screws so fine that they look like gold dust; 20,000 of every working day. them to fill a thimble! Imagine steel screws so small that a pile of them scattered about appear like pepperyet each one threaded, a slot in each

head so that they can be screwed in. A row of girls sit turning these guide remarks:

"That's a job no man has ever been able to hold. You or I couldn't get a screw in place in fifteen minutes. But that girl will put in 4,000 in eight hours."

Poising the balance wheel, I learn, is a delicate job. The rim of it is of brass, welded on steel. Why not all one metal? The two metals to pull against each other and overcome expansion. In testing the balance wheel it is twirled on jewels. If it does not stop dead one or two of these minute, dustlike screws will be removed and others substituted until it does. In the smaller watches a hundred of these screws, side by side, will make an inch. Each is threaded, 360 wise why the 4,500 workers? Human threads to the inch.

Marvels of Watch Factory This Illinois plant, the greatest ingly equipped with automatic machinery. Two men running fourteen. machines drill 125,000 holes in a day in one department. One man, who cuts 1.100 different kinds of "blanks." makes 70,000,000 in a year.

are cut so thin that 333 of them make only an inch. Holes are "lapped" more than 2-10,000ths of an inch." through them with filaments dusted with diamond powder. These threads, almost like bits of spider web, twirl at the rate of 36,000 revolutions a minute! I was shown a two-ounce bottle and told that it held \$1,200

worth of diamond powder. We paused at another mysterious machine, working behind panels of glass, and my guide revealed that it was handling as many tools as 142 men would work with in the good old days of hand-made things. Only this machine worked with much greater speed and with far more accuracy!

now," my guide apologized, "When it does it operates 184 drills and twenty taps. No workman could ever handle more than one tool at a time."

Year to Make Watch It comes as somewhat of a surprise to learn that the process-of making a watch from raw materials requires about a year. Yet so steady is the flow, of materials through the Elgin plant that the 4,500 persons employed turn out just about 4,500 watches

I've always presumed that it must be something of an annoying job to polish the hands of a wrist watch such as a lady must wear today to be in step and style. Easy. Dust a shower of them onto a piece of leather. Bam-m-, with a mechanical hamgold screws into balance wheels. My mer. Polish them all at one swift

operation and, bam-out again! It's a clever bit of a machine that sorts the microscopic jewels that go into the watches automatically. They go into a magazine and each, fragile thin and smooth-polished, must be put there right-side-up. The machine that does it works with speed but

And how big would you guess the cross-section of a hair-spring might be? I am told that it is 2-1,000ths of an inch one way and 4-1,000ths of an inch the other. Operations in watchmaking measure down to 1-10,000 of

Human Skill Factor But all cannot be automatic. Otherskill plays a large and an ever-present

part. The head of a department said: "Sometimes when an old employe watch factory in the world, is amaz- dies or leaves it is necessary to put on as many as four persons to do his work for the flow through the plant cannot stop. The accuracy in minute things acquired by constantly doing the same thing over and over again is startling. One woman placed 4,000 Jewels of sapphire, garnet and ruby pivots, a delicate operation, so accurately that only 200 of them varied

> Here let me give you two watchfacts,-from experts to be to you: The fellow who started the story that you mustn't turn a watch backward in setting it didn't know what he was talking about. It is all bunk unless the watch strikes.

> Wind your watch in the morning rather than at night. You rise more regularly than you go to bed and the main spring will stand the jars of the day better if partly wound.

Windmills, Too Let us turn to windmills. The Elgin Windmill company has been mak-"But it is not going at capacity ing windmills and nothing but wind-

mills for forty years. Bert H. Yar- RAILROADS REDUCE wood, secretary, a reformed newspaper reporter, says:

"Last week a carload of our windmills went to the Riffian war front via Increased Co-operation Betwee Tunis, Algeria. A half carload went to LaPallice, France. Another halfcarload is this week crossing the Andes from Mollendo, Peru, to LaPaz, capitol of Bolivia. From Cape Town to Shantung you'll find Elgin windmills-wherever there are better

Bert wanted to tell me all about how his windmills are dustless, speckless, vaneless, running in oil-these ex-reporters are quick with publicity

Police say that the cheaper types of automobiles are most frequently stolen. A business-like thief recognizes the advantage of quick returns and small profits .- Washington Star.



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roads of the United States reduced the amounts of loss and damage claims from \$45,975,675 for 1924 to \$36,760,941 for 1925, a saving of more than \$9,000,000. Compared with 1920, the loss and damage claims in 1925 show a cut of two-thirds, accomplishing a net saving of \$83,072,000, and the number of claims was halved. The record also shows that 70 per cent of all the claims settled in 1925 were set-

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of unsettled claims was 204,962, as 1920. In less than one-half of 1 per per cent of the cases are reported. cent of the claims were there court Despite increased traffic, the rail- proceedings, according to a writer in the Nation's Business.

co-operation between shipper and carrier in eliminating the economic waste of bad packing, rough handling and dishonesty. Methods for economical and scientific packing are dili-that they know good service for a gently developed. Losses from theft dependable source of good will.

tled within thirty days, and that 80 and robbery were decreased from DAMAGE CLAIM TOTAL per cent of the claims settled last \$12,875,000 in 1920 to \$1,492,000 in year were settled with ninety days. 1925. One hundred thousand arrests At the end of the year the number are made, as an annual average, by railroad police, and convictions in 90 Such are the fleshless details, the bare bones of some of the contributions of America's railroads to be Progress is steady in establishing elimination of waste in industry. By their useful works are the roads able to hold the public's confidence and custom. Their managers are showing

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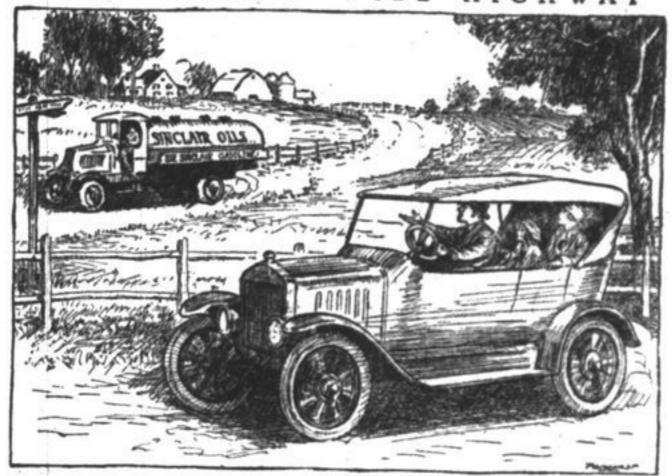
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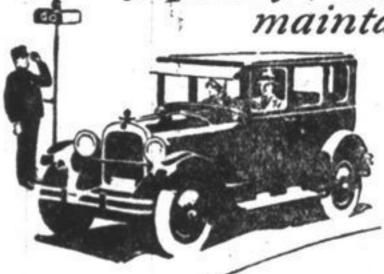




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