

WEATHER GAUGES

THERMOMETERS ARE MANUFACTURED WITH GREAT CARE.

They Are Made Very Accurately, and Though Quickly, Pass Through Nineteen Paits of Hands—The Different Processes of the Instruments.

The making of a thermometer may be either a delicate scientific operation, or one of the simplest tasks of the skilled mechanic, according to the sort of thermometer made.

Whether the thermometer is to be charged with mercury or alcohol; whether it is to be mounted in a frame of wood, pressed tin or brass, the process is substantially the same.

The thermometer maker buys his glass tubes in long strips from the glass factories. The glassblower on the premises cuts these tubes to the proper lengths, and with his gas jet and blowpipe makes the bulb on the lower end.

On the following day another workman holds each bulb in turn over a gas jet until the colored fluid, by its expansion, entirely fills the tube.

MARKING THE TUBES. The tubes now rest until some hundreds of them, perhaps thousands, are ready.

In the same orderly manner Mrs. Astor arranges her footwear, which is equally as exquisite; only the cedar chests have apartments molded in which each slipper and boot fits perfectly and keeps its shape.

When the bulbs have been long enough in the melting snow a workman takes them one by one from their icy bath, seizing each so that his thumb nail marks the exact spot to which the fluid has fallen.

The tubes, with the freezing point marked on each, now go into the hands of another workman, who plunges them, bulb down, into a vessel filled with water kept constantly at 64 degrees.

Then a third workman plunges the bulbs into another vessel of water kept constantly at 98. This is marked like the others, and the tube is now supplied with these guide marks, each 33 degrees from the next.

MARKING THE CASES. With its individuality thus established the tube goes into the hands of a marker, who fits its bulb and hook into the frame it is to occupy, and makes slight scratches on the frame corresponding to the 32, 64 and 98 degree marks on the tube.

The frame, whether it be wood, tin or brass, goes to the gauging room, where it is laid upon a steeply sloping table, exactly in the position marked for a thermometer of that size.

A long, straight bar of wood or metal extends diagonally across the table from the lower right hand corner to the upper left hand corner.

In the process of manufacture the ordinary thermometer goes through the hands of nineteen workmen, half of whom are often girls and women.

Neighbor (on the street)—Good morning, my little dear. I never can tell you and your sister apart. Which of the twins are you?

A Clever Collie.

T. Sidney Cooper, the English animal painter, says that he often made valuable studies in Cumberland at places where Scotch drovers halted with their cattle for the night.

One day when there was a pouring rain a man consented to sit for me at the inn where I was staying. He brought his collie with him and both of them were dripping wet, so he put off his plaid and laid it on the floor by the dog.

"Oh, yes, mon," he answered, "he'll do anything I say to him. Watch! Watch!" he called, and then "whustled" for him, as the Scotch say.

As the dog did not appear we went together to look for him, and found him sitting before the kitchen fire with the end of the plaid in his mouth, holding it up to dry.

"Ah, he's a canny creature, sir! He knows a mony things, does that dog, sir. But come awa', mon; the gentleman wants to mak' your picture."

Mrs. Astor's Lingerie. The cedar chests in the Astor mansion which contain the superb underwear of the queenly Mrs. Astor are perfect household ornaments in themselves, with deep engraven gold lockers with the initial "A" wrought in finest carving upon its surface.

By the way, Mrs. Astor has a very pretty foot for an old lady. Her ankles are small and shapely and her toes are extremely narrow.

Charles Dickens and the Dog. "Every one remembers Dan Brownhan, the old sexton of St. Patrick's," said Mr. H. A. Preston.

No Excuse for Late Hours. There would seem to be no excuse for the late hours which society prescribes for its ceremonies.

Glacier Ice. Glacier ice is not like the solid blue ice on the surface of the water, but consists of granules joined together by an intricate network of capillary water filled fissures.

Which She Was. Neighbor (on the street)—Good morning, my little dear. I never can tell you and your sister apart.

Little Dear—It's the one w'a't's out walkin.—Good News.

A WRECKING TRAIN.

HOW RAILROADS OPEN THE LINE AFTER AN ACCIDENT.

The Train Is Made Up of a Locomotive, a Derrick Car, a Box Car with Heavy Appliances, and a Tool Car—These Cars Contain Everything Needed.

"Accident to train No. 16, engine 46, Engineer A. Jones, Conductor L. Watson." It is a dispatch like the above that the superintendent of a railroad dreads most.

It is to prevent the stoppage of business that every railroad keeps on hand several wrecking trains which are ready at a moment's notice to go to any part of the system, clear away wrecks, temporarily repair tracks and to put engines and cars in sufficient good order to reach the repair shops.

1. Place of accident? 2. What cause? 3. Were any persons injured? If so, what persons and to what extent? 4. Is main track obstructed? 5. Is the track or roadbed much damaged? 6. Is a side track near the obstruction which can be used to pass trains around?

HOW AN ACCIDENT IS REPORTED. Supposing it was a freight train that was wrecked. It is bound west, and on account of a broken rail the train was thrown from the track, and several box cars and "flats" were piled up on both tracks.

As soon as this dispatch arrives at the office a spare engine is attached to the wrecking train, a gang of men are hastily put aboard, the conductor gives the signal and the train speeds away to the scene of the disaster.

The tool car is last, and this indeed is a most interesting one. Some are divided into two or three rooms by partitions running from side to side at different points in the interior.

Everything which experience has suggested as likely to be brought into use in removing derailed cars and freight is to be found in these rooms.

What is required for an everyday pet is that it shall be beautiful and intelligent; that it shall neither be too large nor too delicate, and if a bird that it shall sing or talk—preferably both.

Too Bad. Soso (in the front row at the theater)—How dazlingly beautiful Mile. High-kicker's teeth look tonight.

Dr. Dentello—They ought to; I spent all day cleaning and polishing them. Soso—It must have tired her dreadfully.

Dr. Dentello—Not at all. She sent them by her maid.—Kate Field's Washington.

HOW WING LEARNED.

Dainty Flora, Just Home from School, Tried to Teach the Witting Cooile.

Our charming, dainty little Flora had just returned from her eastern "finishing school" and had fetched a great many ideas of elegance in her wise little head.

"Mamma, why do you not have Wing attend the door instead of the housemaid?" she said. "I think it much nicer to have a man when we can just as well."

There was a little smothered sound of something outside the door. Wing, waiting, held it just two inches open. In a couple of seconds, which seemed an hour to the little listening party crouching at the head of the stairs, two bits of white pasteboard were handed in from the outer darkness.

Wing held them up a moment, then said: "You wait—I see um," and shut the door in their faces. He rushed hastily to the gaslight, drew the "lesson" card from some hidden depths of his raiment, compared the two new ones carefully with it, flew back and reopened the door.

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