until the outside point is exaotly level with the wcale" the number of degreen between the top of the mercury in the thermometers-an near to it as practicable. Examine next the wet bulb thermometer, and move the wet bulb pointer (No, 16) on the slide until the outaide pointer is exactly lovel with the top of the meroury in the wot bulb thomometer, or as near to it as practicable, then turn to the dry

When the thermometers are examined and sot again, following the same plan, it will be easily meen whether the "keepers" are, when set, larther apart than they were at the previous setting, or whether they are, when sut, nearer together than at the previous setting.


## A WEATHER INDICATOR.

and wet bulb ecale, and on the central bras alide bar" (No. 19) move one of the keepers until it tonches an nearly an poenible-is on an exact level with the inaide pointer of the "dry bulb pointer," then move the other keeper until it touches, as nearly as practicable-is on an exact level with the inaide pointer of the "wet balb pointer." The thermometers are now set and the difference between their readings cas be nown by counting on the "dry snd wet bulb

If they are further apart, the thermometers are asid to be "separating"; if they are nearer together, the thermometers are saill to be "approaching." Other things being equal, the thermometers show, when they are "separating, that the air is becoming more dry, one aign of approaching fair weather. The thermometern ahow, when they are "approsching" that the air is beooming more moint of damp, one sign of approwching rain.

The weather onse is not intended to be uned independently of the official weather reporta. It is to be used always in consection with them. The weather case in for the purpose of mupplementing the official reports by showing the looal inatrumental indicationa and giving other information. It in intented espechally for use at farmern' pontofficen and plaven reached with difficulty by the printed reporta. It will sup: plement of en whatever knowledge there be of local signs, with the indioations of the instrument. Its careful use, taken either with the furniahed reparta or even without them (if thay chance to fail) will often enable the character of the eoming weather on the coming day to be so judjped as to determine what kind of work or undertaking it is wise to plan for or to outit. The case gives the local instrumental indications, and will frequently ald in makiug fair forecasta for the next day.

Motive Powens of the Futurk - A suggentive paper was recently read before the Liverpool Engineering Society on "The Utiliza. tion of the Tides," by Mr. Oates, of Hradford, Mr. Oates was of opinion that although the coal supply of England would lant for a loug time to oome, yet that ultimately the power of the tides would outrival all other sourees of mechanical power. After pointing out that the waya of atilizing the tides were insumerable and desoribing the construction of the tidal dam with suitable convertera of the pewer, such as turbines in openings of the dam, work. ing air-comprossing or thagueto-eleetrio machines, he stated that the necesaity for large conservators for storing the power between the Liden would be the greatest ditionity in utiliaing their power. A brief deacription of how this oould be done and the power rendered constant was given. The means of eonveying the power to a diatance wan then considered, air and water pronnure and electrieity being nuggonted. With regard to the lattirf, Mr. Oates believed that the "age of steam" had reached its zenith, and that the "age of elec. trioity" had dawned; bat should there be diffioulty in conveying the power to a dintance, he mugrented that manufaeturing towna might be buift adjacent to muitablen niten for utilising the tiden.

To Kery Wagon Thes on tins Whesi, A practical mechanio suggenta a method of so putting tires on wagons that they will not get loose and require reeetting. He say he ironed a wagon some yearn ago for his own uso, and, borfore putting on the tires, he tilleal the felloes with linsoed oil, and the tiren have worn out and were never looses. This method is an followa: He used a loeg caat-iron heater made for the purpoee; the oil is brought to a boiling heat, the wheel is placed ob a atiel, so as to bang in the oil, each felloe ani hour. The timber ahould be dry, as green timber will not take oil. Care should be taken that the oil in not male hotter than a boiling heat, or the timber will be burned. Timber filled with oil is not suscepti. ble of injury by water, and is rendered mish more durable by this proves.

As Amencas Scientiot Hononeb,-At Ber. lin recently the prizen to exhibitors at the In. ternational Piahery exhibition were diatributed. The tirst honorary prise waa awarded to I'ruf. Baird, of the Staitheonian Institute, United Staten, He will receive a gold medal and an addreas. At the distribution of the priza Prof, Baird, of the Smithoonian Institute, spoke, eulogixing Ramperor William, who, he said, was to be found in every place where there ia an opportunity for jromoting goodaesa and trath.

Hononisa Womas,-The first woman whe bas had entire charges of the female department of Penneylvania's new hospital for the insase, Dr. Alice llennett, wore a cap asd gown at the reonnt pommencement of the Uaiverity of Peansylvania, held in the eity of Philadelphia, and received the degree of Doetor of Philosogity.

