

The entire front axle, wheels, driver's seat, battery box, and steering wheel are turned when this cotton truck rounds a corner

Low-Bed Cotton Truck Steered by Huge Bull Wheel

'HE motor truck for handling bales of cotton, shown in the accompanying illustration, is not steered by the turning of the front wheels on their spindles. Instead the entire front axle, wheels, driver's seat, battery box and steering-wheel mechanism is revolved in relation to the center line of the truck.

This is accomplished by placing the en-

tire front assembly, wheels and all, within a huge internalgeared bull wheel attached to the side frames of the truck. The front wheels simply revolve on their axle but do not turn in relation to it, the steering of the truck being done by turning the front assembly within the bull wheel by means of a gear in mesh with the teeth of the former.

Thanks to this construction a truck can be utilized with a frame only two inches from the ground, yet it can be steered easily and turned in a remarkably short radius. A low frame is necessary to facilitate the lifting of heavy bales. A truck of This double-caliper can quickly this kind can carry an excep- make measurements where antionally heavy load.

Rubber Instead of Glass Eves for Wounded Soldiers

RTIFICIAL eyes of rub-A ber are taking the place of the old-style glass optic forwounded soldiers in Europe. The rubber eyes have the advantage of being unbreakable, and as they are of pneumatic construction they maintain an elastic contact between the eyelids and the back of the orbitary cavity.

To make the new rubber product, a cast formed of liquid plaster is made of the orbitary cavity and from this is constructed an eyeball, the face being of vulcanite. The front and back parts are

made of soft rubber, there being a space between the two parts which is occupied by air, making the eyes pneumatic.

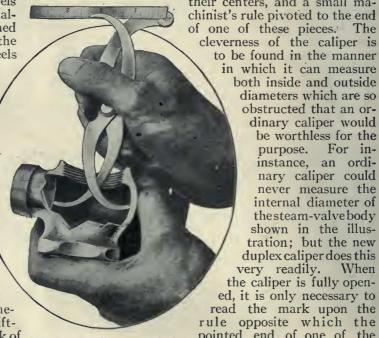
A Caliper That Makes Extraordinary Measurements

THREE-PIECE caliper which looks A like an ordinary caliper bent back upon itself is the invention of a Chicagoan, Mr. Franklin J. Wolff. It consists of two S-shaped pieces of steel pivoted together at

their centers, and a small machinist's rule pivoted to the end of one of these pieces. The cleverness of the caliper is to be found in the manner

> both inside and outside diameters which are so obstructed that an ordinary caliper would be worthless for the purpose. For ininstance, an ordinary caliper could never measure the internal diameter of thesteam-valvebody shown in the illustration; but the new duplex caliper does this

very readily. When the caliper is fully opened, it is only necessary to read the mark upon the rule opposite which the pointed end of one of the S-pieces stops, and the measurement is obtained.



other would be worthless