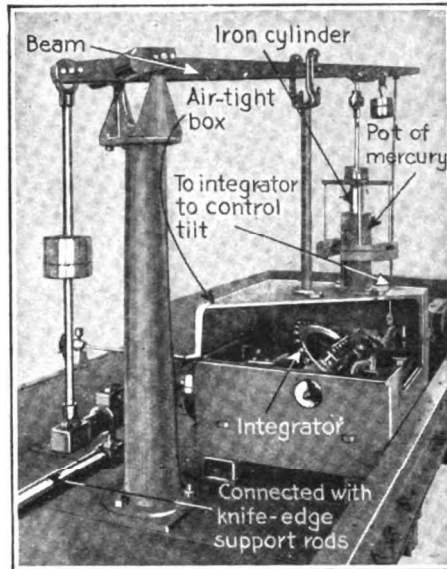


the disk-shaft records the rotations of first plate, however, is designed to take the disk. By correctly choosing the away the momentum of the projectiles speed reduction between the conveyor and the narrow driving belt of the weighing mechanism, the counter will indicate weight in pounds, tons, kilos, or any other units.

This device, once installed and properly adjusted, does its work faithfully and correctly and requires but little attention. It means a large saving of time, labor and expense in all factories where bulk material which enters into the process of manufacture must be weighed while it is conveyed on a belt.



This shows in detail the weighing mechanism and its connection with the integrator which indicates the weight

Armor for the Shock Troops of the Modern Army

THE German army has provided armor for snipers, sentries and observers, the suit being designed chiefly for soldiers whose duties are stationary. The metal helmet is common to both the Allied and German armies.

A cuirass invented by Oscar Schaumann, a German, in 1908, attracted considerable attention. It has three plates, the first being of extremely hard steel and designed to break the points of the projectiles striking it. The second plate is composed of aluminum or duraluminum and the third of celluloid or horn. A softer substance, such as silk or asbestos, may be interposed between the plates and the cuirass proper to lessen the force of the bullets. The



He goes clanking like a junk wagon across No Man's Land

with the movements of the soldier and has considerable protective value. Reports of battles in Europe have not revealed the use of this buckler, however, this being due to the fact that all the available supply of duraluminum in Germany was needed for the building of Zeppelins. It has been pointed out that the buckler could be employed to great advantage in throwing bombs because it enables the soldier to have the free use of his hands.

The steel helmet worn by the soldiers in the European war has demonstrated its protective value unmistakably. Records of battles since September, 1915, show that it saved the lives of many men.

The helmet does not always stop bullets, but even when it is pierced it weakens the projectile's force so as to prevent serious injury.