

in hand the remodelling of the Longburn Freezing Works, which work is costing in the vicinity of £26,000

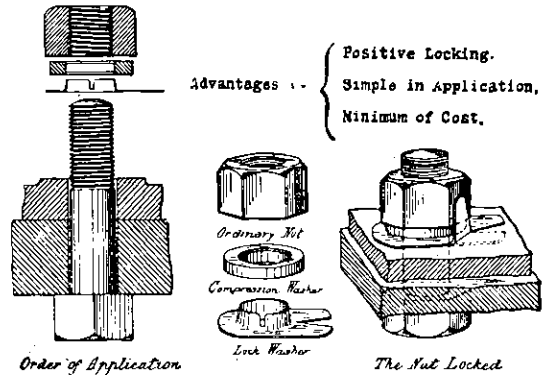


Mr. Massey working the large Copper Boiler Maker at the Methven Works, Dunedin, on June 2nd. The machine is 90 tons in weight, and has the largest Draw Press in the Southern Hemisphere

An Effective Nut Lock

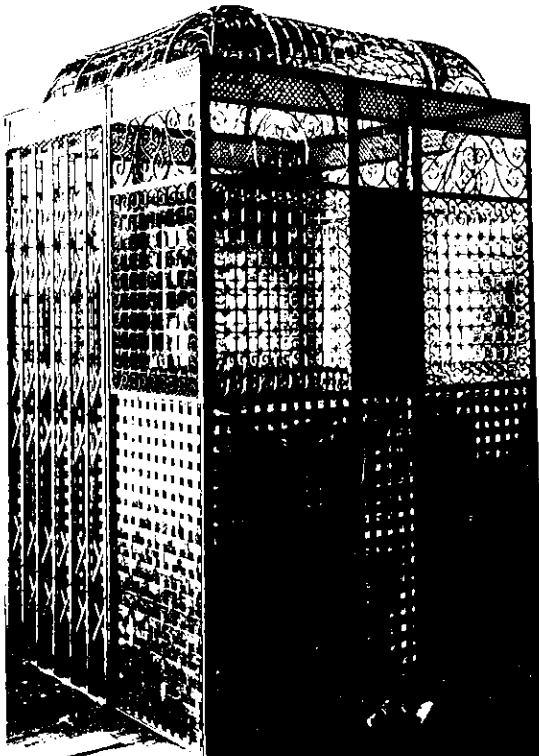
We illustrate below a new patent nut lock which is cheap, simple and effective. It is manufactured by the Shekleton Nut Lock Co. of Sydney, and if it is anything like as good as the patentee says it is, there ought to be a fortune in it.

Ever since the ordinary bolt was invented there has been a search for a locknut, a method of locking that would prevent the nut from working off a bolt no matter how great the vibration, a contrivance that would be simple and cheap in construction, easy of application, and that would be sufficiently neat in appearance to be capable of utilisation in good work. The usual plan in rough jobs is to split the end of the bolt and to prize it open, and sometimes a hole is bored through, and a split pin is inserted. Such methods are cumbersome, ugly, and unsatisfactory. The bolt itself is weakened by being thus split; such a device is not applicable where there is not room for considerable length of the bolt to extend beyond the nut; and it is always unsightly. Mr. Manfield Newton, patent agent, of Sydney, has recently patented for the inventor, Mr. J. H. Shekleton, a nutlock that appears



to have no shortcomings whatever, and to be capable of being used with assurance and satisfaction in every situation where a locked bolt is required. As will be seen from the illustration the contrivance consists of a thick washer, called the compression washer, and a thin lock washer of brass or some other soft metal. In application the lock washer is placed over the bolt threads, the compression washer is then applied, and the nuts screwed home upon this. The cone of the lock washer by this means locks on to the bolt threads and finally its projecting flanges, when turned up around the nut, render it impossible for it to become loose under any working conditions. Among the many advantages claimed and proved of this nut, may be mentioned the following:—

- (1) Its application is perfectly simple, and immunity from accidents is assured where the nutlock is used.
- (2) it can be made with any machinery now in use for making bolts, and nuts.
- (3) It can be used with ordinary trade nuts and bolts without requiring that either be altered, and is applicable also to every class and size of bolt.
- (4) There is no spring attachment or other intricate part to get out of order, or to corrode and perish.



Steel Lift made by Messrs. Stonex & White of Auckland, for the new A.M.P. Building