Inventions Meet Each New Need as it Arrives—Special Safety Provisions for **Protection of Women Workers**

Wonderful Adaptability In

wonderful adaptability of the pair of pliers, offered less harmful remunition factory, says an Engter, for the marvellous ingenuity
colsetters and engineers of the
has been an equally amazing

In the actual process of shell filling

The micrometer, a very delicate intrument requiring the most careful rading, has been almost superseded in sost of the works by either simple incator gauges or skilfully conceived rolls known as "go" or "not go" gauges. It is from these quiet shell-shops that success emanates, for our brave men at the front rely with confidence upon the women working quietly and unceasingly here at home for life and some man "out there"—and there are few indeed who have not some dear one fighting for whom we are only too eager and ready to work—who needs our every effort is immediate apparent from the act that it will or will not "go." By its method a young girl was seen sting 200 eighteen-pound shell cases a hour, where the same work done by micrometer in the hands of a skilled an would take perhaps ten times that mount of time.

On the works puckets in from the destination of the productions. Yet it is from these quiet shell-shops that success emanates, for our brave men at the front rely with confidence upon the women working quietly and unceasingly here at home for life and for victory.

Every woman worker is helping to keep up the supply of munitions, for some man "out there"—and there are few indeed who have not some dear one fighting for whom we are only too eager and ready to work—who needs our every effort to keep the big guns busy. It is this great incentive that keeps the women true and determined at their posts and truly one woman voiced the senting to make the for victory.

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British Munition Works

is writer, for the marvellous ingreases in writer, for the marvellous ingreases in the toolsetters and engineers of the fountry has been an equally amazing liscovery.

The hands of the munition-makers are busily engaged upon turning out hells, shell-cases, fuses and gaines at remarkable rate that has only been endered possible by the extraordinarily adifful jigs, tools, moulds, gauges and aechanism that the brains of the engineering world have produced.

In the production of shells the work necessarily of the very finest, and on he occasion of a recent visit to a shelliling and munition factory, the writer ras astounded at the marvellous adaptations that have been introduced to implify the operation of the complicated machinery, and to enable unskilled comen and girls to produce work of such ight standard and precision as would reviously have required the most exert workmanship.

Most of the work is, of course, repetition work, and the operator relies solevupon the tool-setter, not only for the ctual work, but also for the various agenious combination gauges, governing diameter and length; by which its curracy is tested.

Elaborate attachments have been fix to the existing machinery, rendering it not only "fool-proof" in the enincer's ense of the word, which means rithout fear of damage to the machine that become essential since the irroduction of female labor, not only protect untrained hands and fingersor familiarity with danger only too fren breeds fatal contempt—but also to afeguard against any possibility of their or dress of the munitonicre being aught by the revolving wheels.

One machine for folding cartridge-sees was entirely protected by strong any impossibility. Another for olitting the cartridge-charges was fit-ad with a finger-guard, or stop, which is con

a hour, where the same work done by micrometer in the hands of a skilled an would take perhaps ten times that mount of time.

On the drilling machines also the dill of the engineer has adapted tools or encasing the necessary parts, so contructed as to allow its insertion only as way—the right way. The correct igle is in this manner absolutely introduction of female labor into me making-up of wooden cases for desacthing the finished shells revived the ncient theory of woman's inability to se a hammer without courting serious njury to her hands and fingers; and no oubt it was that same fallacy that has een responsible for ingenious tools that briated all likelihood of the nails esping from their intended position. Any tool, having the appearance of a







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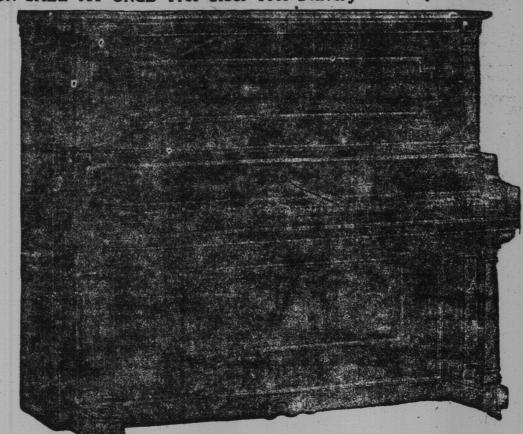
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