

# • New Machines and Gadgets •

☛ **PORTABLE** gas generating plant, to make hydrogen for barrage balloons and carbon dioxide for fire protection, is mounted on a 16-ton Army trailer for use in combat areas. The unit contains oil heaters, high temperature catalytic conversion chamber in which the gases are formed from water and alcohol, cooling system and high-pressure compressor.

*Science News Letter, October 14, 1944*

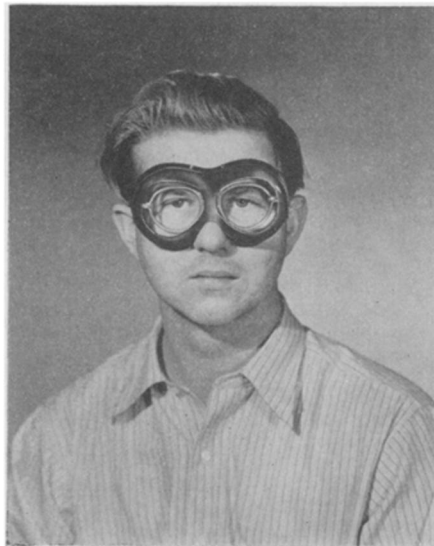
☛ **TURNTABLE**, with four lead-lined vertical chambers, is used to hasten the X-ray inspection of manufactured metal objects to detect interior flaws and defects. One chamber at a time faces the exposure station, and one the film placing station while the others are being reloaded. The lead protects workers from dangerous radiation.

*Science News Letter, October 14, 1944*

☛ **FOLDING BED** which when closed resembles a chest of drawers has a lower drawer section for storage which acts as a center support for the bed when opened. The upper part is in two hinged sections that open outward to a horizontal position forming the bed.

*Science News Letter, October 14, 1944*

☛ **FACE-FITTING** factory goggles to protect the eyes of workers are now made of a light tough plastic molded to fit closely around the face, as shown in the



picture. Lenses are easily changed when necessary. These ventilated goggles are roomy enough to wear over ordinary glasses.

*Science News Letter, October 14, 1944*

☛ **BOWLEGGED** hair fastener is a four-pronged ringlet hairpin with two long inner and two short outer prongs. The longer prongs are curved outward with their points together to hold a full tuft of hair. The device is used to set a curl or ringlet.

*Science News Letter, October 14, 1944*

☛ **TOBACCO-SAVING** cigaret holder, which permits every particle of the weed to be smoked, is an interlocking tube with small openings in each of its ends. The cigaret is placed in the center and smoked from either extended end. No ashes can drop on the rug.

*Science News Letter, October 14, 1944*

☛ **AN IMPROVED HONE**, made from natural crystalline quartz, and finished by a new process, sharpens tools quickly with little effort. The honing surface, after being cut from the crystal and shaped, is immersed in hydrofluoric acid for ten hours, then removed with its face evenly etched.

*Science News Letter, October 14, 1944*

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