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• *Science News Letter*, 79:220 April 8, 1961

#### INVENTION

## Patents of the Week

A developer for color film and a previewer of motion picture negatives, have been patented. A device for safer dental X-rays was another recent invention.

➤ **TWO PHOTOGRAPHIC DEVICES** just patented could be a boon among do-it-yourself amateur photographers and also help the motion picture industry.

One is a portable automatic film developer for home camera buffs; the other is an "electronic previewer" for developing motion picture films.

Hardy Iwao Tsuno of Gardena, Calif., has invented a film developer, patent No. 2,975,695, that processes color film without any human assistance. The film is inserted in a machine, which is set for the time required by the film manufacturer to develop the film. The film is automatically washed and then dunked in chemical solutions that develop the film. The developing unit can be used at home on the kitchen sink or table and is easily stored in a small closet, the inventor claims.

The "electronic previewer," patent No. 2,976,348, was invented by William F. Bailey of Valley Stream, Bernard D. Loughlin of Huntington, and Charles E. Page of Westbury, N. Y., and assigned to Hazeltine Research, Inc., Chicago.

A screen image of what a motion picture negative will look like in color permits photo-developers to make any necessary adjustments before a final print is made, needless time and expense in the present "trial-and-error" method of print-making are saved by the method, the patent claims. The image is "shot" on the screen by electron guns that excite differently colored phosphors embedded in the display screen.

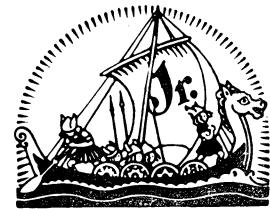
Safer and more comfortable teeth X-rays by a dentist is claimed by inventor Stephan

T. Freeman of Gloversville, N. Y., who was awarded patent No. 2,976,417. A bridge, placed behind the teeth, guides a tiny container housing two spools of X-ray film. As each picture is snapped, the film is wound from one spool onto the other, exposing new film. The bombarding X-rays pass through a small opening in the container, recording the tooth's image on the film. The container traps the dangerous rays, and no tooth is exposed twice to the radiation, Mr. Freeman states in his patent.

A radar antenna with a huge reflector, nestled in a hillside for collecting radio waves, is visualized by Winfield W. Salisbury of Lafayette, Calif., who assigned his patent, No. 2,976,533, to Zenith Radio Corporation of Delaware. The radar unit spots small objects, such as airplanes, at greater distances than other radar units because the huge apron-like reflector scoops up more radio waves and reflects them into the sensitive antenna. A lens at the focal point of the reflector corrects any stray reflected radio waves that would miss the antenna.

A "switchboard" that allows handicapped people to make telephone calls with little effort won patent No. 2,976,370 for Edward T. Duncan, of Bridgeport, Conn., who assigned it to Harvey Hubbel, Inc., also from Bridgeport. By merely flipping a switch, a person can tap into a telephone line or dial a number. A series of numbered electric lights on the switchboard corresponding with the numbers of a standard telephone dialing system tells the person the number he is dialing.

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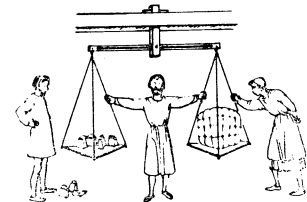
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