properties are no doubt the result of the inclusion of a developer improver; a wetting agent is also included. Con-Sol can also be used at a dilution of 1:10 or 1:12 for bromide papers, hence it can be classified as a truly universal paper developer.

The packings available are 1/2 gallon, which makes 4 gallons of working solution, and 4 1/2 gallons which makes 36 gallons of working solution. The prices of these packings are, respectively, £1 6s. 6d. and £4 16s. 9d., these prices being subject to the usual trade discounts where these are applicable.

TRIBOX RAPID FILM WINDER
(Photo-Science Ltd., 10 North End Parade, North End Road, London, W.14)

All the Tribox equipment is designed to facilitate and speed up the processing of roll and miniature film whilst at the same time treating each film on an individual basis rather than putting it through large tanks together with many others. The exact method whereby this is done has been described in a previous B.J. Almanac (1952) so it will suffice to say that films are processed three at a time in three tanks which are handled together.

This film winder is designed to speed up the loading of the films on to their individual spiral groove holders and a most ingenious device it is. The spiral is placed in the winder, which is clamped to the edge of the workbench, and can be rotated by a handle. The leading edge of the film is turned over for about 1/2 in. and inserted into the outside turn of the spiral and pushed in 3 or 4-in.

The film is then given a slight bow by placing its edges between two small rollers on a bar which extends across the width of the spiral. By rotating the spiral anticlockwise with the handle, the end of the film travels into the centre of the spiral until the turned-over end hooks over the last turn. The handle is then rotated clockwise and the film loads itself into the successive turns of the spiral quite automatically.

The winder can also be used to reload wet film into the holder and for reloading 35-mm. cassettes. The price of the Rapid Loader is £2 7s. 6d.

TRIBOX ELECTRIC MIXER
(Photo-Science Ltd., 10 North End Parade, North End Road, London, W.14)

This device enables three films in the special Tribox tanks to be developed quite without attention so far as agitation is concerned. Essentially this mixer is quite simple, a solid case base is suitably shaped to hold the triple tank and a top unit is supported by a pillar at the back of the base. The top unit contains a mains-voltage motor and a gear mechanism which converts the fast, continuous rotation of the motor into a slow oscillation of the final shaft.

The final shaft is in fact only a stub shaft which is hollow and has a dog clutch on its upper end. The drive shaft, which is some 10-in. long, runs through this stub and connects to the spiral holder of the back tank of the three. When this drive shaft is correctly adjusted, the motor unit can be swung to one side, the tanks put in place on the base, and the drive shaft slid upwards in the stub shaft and the motor unit swung until it is directly over the tank. The drive shaft is then lowered and engaged with the spiral holding the film and the dog on the stub shaft will engage with its mating member fixed to the drive shaft. The motor can then be switched on and the processing started.

The mixer is extremely solidly made from heavy castings, and is finished in white enamel. The price is £18.

TRIBOX RINSING EQUIPMENT
(Photo-Science Ltd., 10 North End Parade, North End Road, London, W.14)

As a further aid to the systematic processing of film in the Tribox tanks, it is obviously an advantage if the developer can be left in the tank and the spiral holders simply removed and placed in a further set of tanks for mixing and washing.

This washing equipment consists of three light alloy tanks without covers, arranged in the same clover-leaf fashion as the developing tanks. A common water inlet is provided which is divided into three and taken to the base of each tank. The outlet at the bottom of each tank consists of a set of nozzles arranged like the spokes of a wheel and give the water, as it flows up, a swirling, clockwise motion.

The spiral holders rest on a tapered pivot at the bottom of the tank and in addition to the rotary motion of the water, the spirals are also given an up and down motion by the action of the jets.

All the water piping is made from brass and the whole device is very well finished. The price is £6 5s.