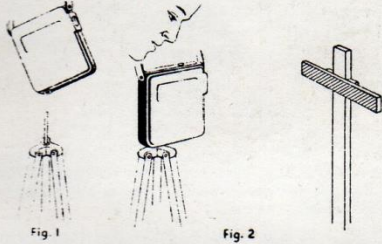


COWLEY AUTOMATIC LEVEL

Instructions for use

1. Set up tripod with the pin pointing vertically upwards.
2. Mount the instrument on to the tripod pin so that the pin goes full length into the hole on the underside of the instrument. (Fig. 1)
3. Let an assistant hold the staff with target on the spot which is to be levelled. The staff should be held dead upright, and the yellow front of the target should face the level. (Fig. 2)



4. Look down into the aperture at the top of the instrument (Fig. 2) and swivel the instrument until the target can be seen through it split into two halves (Fig. 3). The field of view may appear as a whole circle, as at A, B, or D, or it may be split, as at C—ignore this. The Target may appear horizontal as at A, B, C, or tilted as at D—ignore this also.

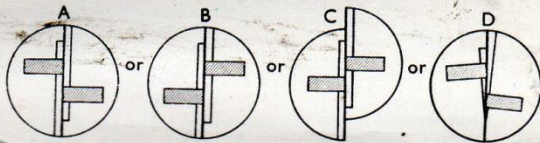


Fig. 3 Target off Level

5. Signal to the assistant to raise or lower the target on the staff, until the two halves of the target are brought into coincidence as in Fig. 4. It does not matter whether the two halves of the circle are level (as at E, & G, Fig. 4) or whether they are split, as at F—the target will be exactly level with the instrument, and the height can be read on the scale on the back of the staff.

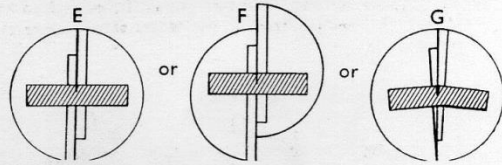
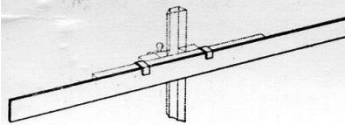


Fig. 4 Target on Level

6. Other levels can be taken by swivelling the instrument around to face other positions of the staff with target, and the level will still be correct, so long as the tripod has not been disturbed.

7. Where it is impractical to erect the tripod, the bricklayers stand can be used advantageously, in particular on brickcourse, etc.

NOTE: When off the tripod or bricklayers stand, the mechanism of the instrument is locked. Always remove the instrument from the tripod or stand when carrying it.

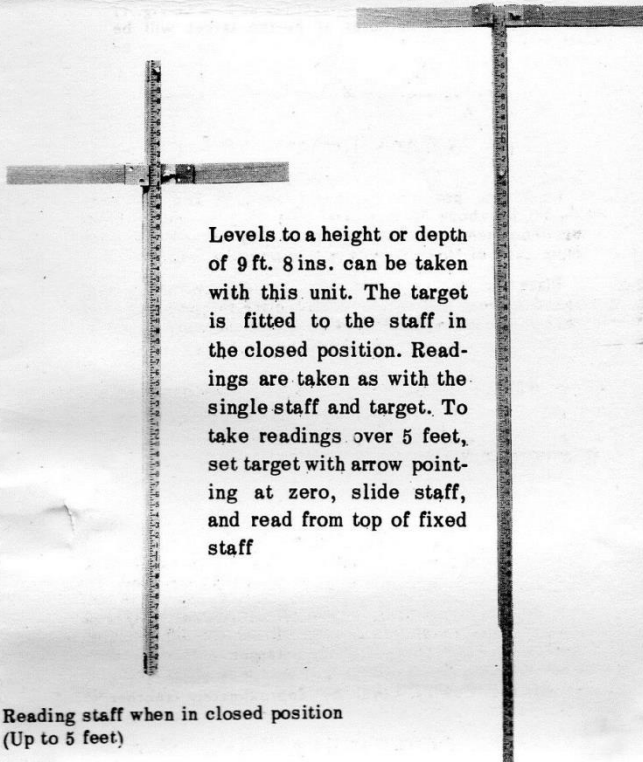


DISTANCE TARGET

This inexpensive accessory enables the Cowley Level user to take a longer sighting than is normally possible with a standard target.

Simply clipped on to the standard target it extends the range of the Cowley Level by approximately another 100 ft. Made of aluminium and painted bright yellow, it is 36 ins. long.

COWLEY LEVEL SLIDING STAFF

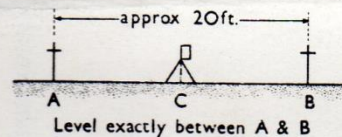


Levels to a height or depth of 9 ft. 8 ins. can be taken with this unit. The target is fitted to the staff in the closed position. Readings are taken as with the single staff and target. To take readings over 5 feet, set target with arrow pointing at zero, slide staff, and read from top of fixed staff

Reading staff when in closed position (Up to 5 feet)

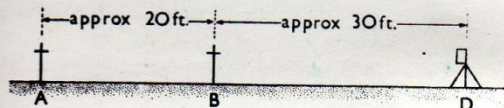
Instructions for Testing

If the Cowley level should at any time be dropped, badly knocked, etc., and it is desired to ensure that it is still giving correct readings, proceed as follows:



Mark two positions on the ground, A and B. They should be about 20 ft. apart. Set up the Cowley Level between them at C; it should be exactly the same distance from each of them to within two or three inches.

Place the staff at A and take a reading; turn the level round without moving the tripod, place the staff at B, and read again. Note the difference in level between A and B.



Remove level to position D. This should be nearly in line with A and B and about 30 ft. away from the nearer. From this position, again take readings on the staff at A and B, and note the difference of level between them.

If these instructions have been carried out correctly, and if the Cowley Level is in good condition, the difference of level taken from position C should agree with that taken from position D to within $\frac{1}{4}$ inch. If it does not, the Cowley Level should be returned to the supplier for examination.