PATENT SPECIFICATION

NO DRAWINGS

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COMPLETE SPECIFICATION

Perspective Drawings—Apparatus for Locating Measuring Points

I, JOHN ANTONY DUNKIN WEDD, of Tye Cross, Chiddingstone, Edenbridge, Kent, a British subject by birth, do hereby declare the invention, for which I pray that a patent
5 may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement: —

A known method of obtaining correct fore-
10 shortening is by way of intersecting lines to measuring points and vanishing points. Constructions for locating these have been published, and correspond to the formulae $m=\frac{1}{2}.3\frac{1}{2}.p(cosec.a-cot..a)$ and $v=\frac{1}{2}.3\frac{1}{2}.p.cot.a$
15 where m and v are the off-centre distances of measuring and vanishing points, p is the picture width for a 60° angle of view, and a the angle between the picture plane and the line to be foreshortened.
20 An instrument for solving these equations consists of a cylinder with a transparent sleeve free to slide along or rotate around it. Marked circumferentially on the cylinder are: —

(1) A line indicating picture width, p.
25 (2) A linear scale giving the angle, a.

The sleeve is marked lengthwise with a logarithmic scale. This is slid lengthwise along the cylinder to register the correct value for p, and rotated around the cylinder to register
30 the correct value for a on the angle scale. It then indicates distances for v and m opposite

(3) Two curves marked on the cylinder, crossing at a=60°.

The instrument may be varied or extended 35 as follows to accommodate alternative input or additional output data:

a. Duplication of the graph and logarithmic scale in respect of other vanishing points. 40

b. Addition of curve or curves to give distance between vanishing points.

c. Additional curve or scales to indicate position of 45° vanishing point or other diagonals. 45

WHAT I CLAIM IS:—

(1) A calculator for determining measuring and vanishing points in perspective drawings comprising a cylinder on which an angle scale is marked circumferentially and on the surface 50 of which is inscribed a first curve given by
$v=\frac{1}{2}.3\frac{1}{2}.p.cot.a$
and a second curve given by
$m=\frac{1}{2}.3\frac{1}{2}.p.(cosec.a-cot.a)$
where a is the angle between the picture 55 plane and the line to be foreshortened, and p is an arbitrary picture width; and a transparent cylindrical cursor on which is marked a logarithmic scale.

(2) A calculator substantially as herein des- 60 cribed.

J. A. D. WEDD,
23 June 1963.