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Abstract of GB 133577 (A)
133,577. Windle, E. Jan. 30, 1919. Planetrigonometry calculators; slide-rules.- An apparatus for the solution of right-angled triangles and for use as a protractor or drawing instrument of the kind comprising a quadrant having a pivoted arm and a sliding vertical member, is provided with logarithmic as well as ordinary scales so that the sliding member may be replaced by a rule bearing a logarithmic scale to act as a slide rule. The base B, radial $\operatorname{arm} \mathrm{A}$, and sliding vertical member C are provided with similar evenly graduated scales a and with logarithmic scales $b$, that on the arm A cooperating with a double scale e to half the radius The quadrant D is graduated in degrees and gradients, and a groove G is provided in the base B to carry the member $C$ or a logarithmically graduated rule. The joint $F$ is formed as a flat knuckle joint to allow the device to lie evenly on the paper.


