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(54) **BANKNOTE VERIFICATION DEVICE**

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See application file for complete search history.

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(57) **ABSTRACT**

The invention relates to banknote verification devices that
work using transmitted light. The claimed device has the
technical result of uniformly illuminating the banknote that is
being tested. The device comprises radiators (1), radiation
receivers (3) situated on the opposite side of a banknote (2),
and a light guide (4) which is situated between the radiators
and the tested banknote and which is designed in the form of
a tetrahedral prism with a trapezoidal base. One of the parallel
side faces of the light guide (4) used as a radiation inlet face
is oriented towards the radiators, while the opposite outlet
face is oriented towards the surface of the banknote, all the
other faces being light reflecting. The radiators (1) are dis-
posed along the inlet face of the light guide (4) with equal
intervals therebetween so that the sections of the outlet sur-
face illuminated by adjacent radiators overlap. Furthermore,
the first and the last radiators are mounted at a distance from
the edge that is equal to half an interval.

20 Claims, 4 Drawing Sheets

