

Patent title:	Volumetric receiver
FBK center:	CMM
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Abstract:	The invention is a volumetric receiver (100, 200) configured to absorb the radiation (R) emitted by a heat source (S) and incident on an exposed face (102, 202) of the same volumetric receiver (100, 200) and to transfer the thermal energy induced by said absorption to a surrounding heat transfer fluid (F). This volumetric receiver (100, 200) comprises a plurality of hollow cells (1) whose longitudinal axes are substantially orthogonal with respect to the exposed face (102, 202), wherein the hollow cells (1) are adjacent and stably connected to one another in such a way as to define at least one level (104; 204a, 204b, 204c) substantially parallel to the exposed face (102, 202), each one of the hollow cells (1) defining a channel open at both its ends opposite each other according to said longitudinal axis and each one of the hollow cells (1) being also provided with an opening (3) made on its lateral surface (2).