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(54) **Title:** AIR DISTRIBUTION SYSTEM AND BARRIER PREFERABLY FOR VERTICAL FARM INSTALLATIONS

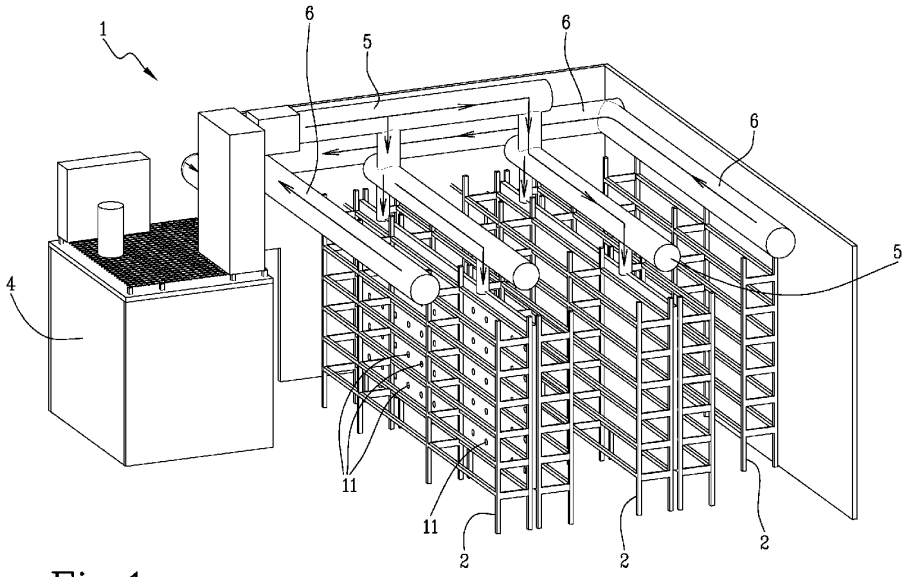


Fig.1

(57) **Abstract:** The present invention relates to a system (1) for air circulation between a plurality of shelves (3) of one or more vertically extending racks (2) contained inside a closed environment, the system (1) comprises: an air circulation unit (4) configured to generate an air flow; a plurality of channels (5, 6) connected to said air circulation unit (4) and configured to distribute air inside the closed environment by means of a direct air flow between the shelves (3) of the racks (2); an internally hollow vertical wall (10) comprising a first surface arranged in contact with a surface of a rack (2), said cavity of the wall (10) being in fluid contact with at least one channel (5, 6), said first surface comprising a plurality of holes (11) configured to direct the air flow towards the outside of the shelves (3) of the rack (2). The present invention also relates to a method for air circulation between a plurality of shelves (3) of one or more vertically extending racks (2) contained inside a closed environment.

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