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(54) Title: METHOD FOR IMPERMEABILIZING A TUNNEL COVERING FORMED BY PREFABRICATED ASHLARS AND PREFABRICATED ASHLAR WHICH CAN BE USED IN SUCH A METHOD

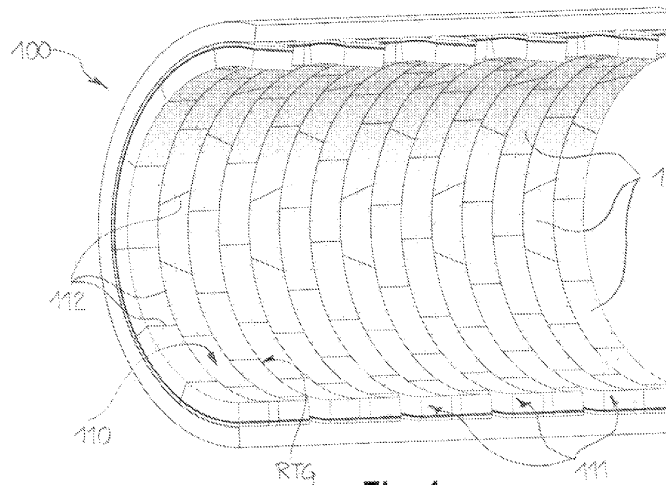


Fig. 1

(57) Abstract: A method for impermeabilizing a tunnel covering which is formed by prefabricated ashlar (1), comprising the steps of: a) providing a plurality of prefabricated ashlar (1), having an intrados face (11), an opposite extrados face (12) with respect to the intrados face (11), a peripheral edge (13) which connects the intrados face (11) to the extrados face (12), a peripheral groove (3) which extends longitudinally in a continuous manner in the region of the peripheral edge (13), and at least one injection pipe (4) having a first end opening (410) in the region of the intrados face (11) and at least one second end opening (420) in the region of the peripheral groove (3); b) positioning the plurality of prefabricated ashlar (1) along walls of a tunnel so as to form a tunnel covering, wherein the tunnel covering comprises a grid of interconnected joint lines (112), each one being defined between two respective, mutually adjacent

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prefabricated ashlar (1), wherein in the region of each joint line (112) corresponding sections of the peripheral grooves (3) of the two mutually adjacent prefabricated ashlar (1) are mutually facing so as to form a respective hollow channel (113), with which there is formed in the tunnel covering a grid of interconnected hollow channels (113) corresponding to the grid of interconnected joint lines (112), and c) filling the grid of interconnected hollow channels (113) with a sealing material (5) which is impermeable to water and which can be injected, wherein the sealing material (5) is injected into the grid of interconnected hollow channels (113) through the first end opening (410) of the at least one injection pipe (4) of one or more of the prefabricated ashlar (1) which are provided with at least one injection pipe (4). There is also described a prefabricated ashlar (1) which can be used in this method.