

Title (en)  
Process for the ventilation of road tunnel

Title (de)  
Verfahren zur Belüftung in einem Tunnel

Title (fr)  
Procédé de ventilation d'un tunnel routier

Publication  
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Application  
**EP 00127346 A 20001213**

Priority  
HR P990415 A 19991230

Abstract (en)  
A process for the ventilation of the road tunnels is performed so that the tunnel is partitioned with horizontal barriers 1 in the form of declined ceiling, longitudinal at the high of 4.5 to 4.7 meters from the roadway, and with two vertical barriers 2 forming thus three longitudinal channels. The channels are provided with electro-motoric fireproof jalousies 4 incorporated in horizontal barrier 1. In the case that the fire occurs in the tunnel, by the switching operation regime from automatic to manual, and by the controlling of the fan operation for exhausting or supplying the air into side channels 3 and middle channel 7, and by the controlling of the closing and opening of the jalousies 4, it is achieved that: there is no propagation of the smoke and fire out of controlled aria (distance between two jalousies of about 50 to about 100 meters); efficacious acting of stable system for the extinguishing is obtained, because there is no along air streaming and new air supplying to the fire place, thus self-extinguishing occurs because of reduced amount of oxygen; quick and safe evacuation of the people from the tunnel is provided, and undisturbed arrival of the saviours next to the fire place is ensured; there is no need for the building of special shelters in the tunnel for the people; we have very elastic system functioning for fans and jalousies regulation; maintenance of the equipment is possible during the traffic in the tunnel; the fans are accommodated outside of the tunnel in the engine-room next to the transformer station; damages on the equipment in the tunnel arise only in the aria of fire emergence; and damages on the ventilation equipment, after fire was extinguished, are only on the jalousies (jalousies drive) of nearest place to the fire. <IMAGE>

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