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(57) Abstract :

The present invention also relates to a system and method for dynamic flap control with two-way flow compartment / pipe for increasing temperature of air to be blown to the tyre. More particularly, the present invention relates to a system for increasing temperature of air to be blown to vehicle tyres comprising a normal camera (10) placed below the under body of the vehicle to detect heat and pressure on every tyre to capture images and / or videos, images and / or videos from the camera (10) are sent and processed in the IDPU (Image Detection/Processing Unit) (11), IDPU detects the temperature on each tyre at every area by images and / or videos from camera, input from IDPU is sent to the TTCU (Tyre Traction Control Unit) (12) and it triggers to start the air intake blower (2), air intake blower (2) takes in surrounding air and sends it into heat exchange compartment (8) for heating surrounding air; hot air is then mixed with tyre traction improvement gas (4); this mixture is sprayed on to the tyre through dynamically controlled air flow control flap (7) hoses, wherein TTCU dynamically controls the flap (7) opening based on speed, rotation and temperature of the tyre.

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