[6] In fact, particles and dust continue to escape in undesirable amounts during the braking phases.

Summary

According to an aspect, the present disclosure refers to a braking system comprising a brake pad, said pad comprising a backing plate with a first face and a second face, and a lining made of friction material and fixed to said first face, the lining being delimited by a friction face, a mounting face, an inner edge, an outer edge, a rear edge, and a front edge, said lining being provided with at least one collection groove which is open to the friction face, and which has an opening at a first end towards said inner edge and has an opening at a second end towards said outer edge, characterized in that said braking system further comprises a suction system which comprises a suction pipe through which air is able to be sucked in, and a blow pipe through which air is able to be blown, an air inlet orifice of said suction pipe being located opposite one end of said at least one groove, selected among said first end and said second end, and the air outlet orifice of said blow pipe being located opposite the other end of said at least one groove, selected among said first end and said second end.

Description of the invention

[7] The invention aims to remedy these disadvantages.

[8] The invention aims to provide a braking system for which the capture of particles and dust emitted by the lining and rotating element is optimized, and for which the construction is as simple as possible.

[9] This object is achieved by virtue of the fact that the braking system further comprises a suction system which comprises a suction pipe through which air is able to be sucked in, and a blow pipe through which air is able to be blown, the air inlet orifice of the suction pipe being located opposite one end of the at least one groove, selected among the first end and the second end, and the air outlet orifice

Claims

[Claim 1] Braking system comprising a brake pad, said pad comprising a backing plate with a first face and a second face, and a lining made of friction material and fixed to said first face, the lining being delimited by a friction face, a mounting face, an inner edge, an outer edge, a rear edge, and a front edge, said lining being provided with at least one collection groove which is open to the friction face, and which has an opening at a first end towards said inner edge and has an opening at a second end towards said outer edge, **characterized in that** said braking system further comprises a suction system which comprises a suction pipe through which air is able to be sucked in, and a blow pipe through which air is able to be blown, an air inlet orifice of said suction pipe being located opposite one end of said at least one groove, selected among said first end and said second end, and an air outlet orifice of said blow pipe being located opposite the other end of said at least one groove, selected among said first end and said second end.

[Claim 2] Braking system according to claim 1, wherein neither the suction pipe nor the blow pipe are in contact with said lining or said backing plate.

[Claim 3] Braking system according to claim 1 or 2, wherein the air inlet orifice of said suction pipe is located opposite said second end, and the air outlet orifice of said blow pipe is located opposite said first end.

[Claim 4] Braking system according to claim 3, wherein said first end opens onto said inner edge.

[Claim 5] Braking system according to claim 1 or 2, wherein the air inlet orifice of said suction pipe is located opposite said first end, and the air outlet orifice of said blow pipe is located opposite said second end.

[Claim 6] Braking system according to claim 5, wherein said second end opens onto said outer edge.

[Claim 7] Braking system according to any one of claims 1 to 6, wherein said suction system comprises a pump and a filter, said pump, said filter, said suction pipe, and said blow pipe forming a continuous circuit.

[Claim 8] Braking system according to any one of claims 1 to 7, wherein said at least one groove is located near said rear edge.

[Claim 9] Braking system according to claim 8, wherein said lining is provided with a second groove which is located substantially midway between said front edge and said rear edge.

[Claim 10] Braking system according to claim 8 or 9, wherein said lining is provided with an additional groove which is located near said front edge.