Summary

According to an aspect, the present disclosure refers to a brake pad, the pad comprising a sole plate with an outer face and an inner face, and a lining made of friction material fixed to said inner face, the lining being delimited by a friction face, an attachment face, an inner edge, an outer edge, a rear edge, and a front edge, the lining being provided with at least one collection groove that is open on the friction face and is located at least in part near the rear edge, the sole plate comprising at least one suction hole in fluid communication with said at least one collection groove, said at least one suction hole being connected to a negative pressure source via communication means, said at least one collection groove being characterized in that said at least one collection groove~~it~~ is extended, at at least one of its ends, by a duct of which ~~the~~ an outer end is open away from said friction face, via an inlet, and of which ~~the~~ an inner end is open in said at least one collection groove via an outlet which forms a cross-sectional jump with said at least one collection groove such that, during operation, a negative pressure exists between said inlet of the duct and said at least one collection groove ~~one on each side of~~across said duct, said outer end being open in ~~the~~ a region of ~~the~~ at least one edge among said edges which is closest to said sole plate and which is not consumed at ~~the~~ an end of ~~the~~ a normal operating life of said pad, said region extending over a certain percentage of ~~the~~ a height of said lining measured from said sole plate.

In an example, the present disclosure relates to a brake pad comprising a sole plate with an outer face and an inner face, and a lining made of friction material fixed to the inner face, the lining being delimited by a friction face, an attachment face, an inner edge, an outer edge, a rear edge, and a front edge, the lining being provided with at least one collection groove that is open on the friction face and is located at least in part near the rear edge, the sole plate comprising at least one suction hole in fluid communication with the at least one collection groove, the at least one suction hole being connected to a negative pressure source via communication means.

The present disclosure aims to provide a brake pad provided

CLAIMS

1. Brake pad, the pad comprising a sole plate with an outer face and an inner face, and a lining made of friction material fixed to said inner face, the lining being delimited by a friction face, an attachment face, an inner edge, an outer edge, a rear edge, and a front edge, the lining being provided with at least one collection groove that is open on the friction face and is located at least in part near the rear edge, the sole plate comprising at least one suction hole in fluid communication with said at least one collection groove, said at least one suction hole being connected to a negative pressure source via communication means, said at least one collection groove being characterized in that said at least one collection groove~~it~~ is extended, at at least one of its ends, by a duct of which ~~the~~ an outer end is open away from said friction face, via an inlet, and of which ~~the~~ an inner end is open in said at least one collection groove via an outlet which forms a cross-sectional jump with said at least one collection groove such that, during operation, a negative pressure exists between said inlet of the duct and said at least one collection groove ~~one on each side of~~across said duct, said outer end being open in ~~the~~ a region of ~~the~~ at least one edge among said edges which is closest to said sole plate and which is not consumed at ~~the~~ an end of ~~the~~ a normal operating life of said pad, said region extending over a certain percentage of ~~the~~ a height of said lining measured from said sole plate.

2. Brake pad according to claim 1, wherein said at least one collection groove consists of a single groove which runs along said rear edge.

3. Brake pad according to claim 2, wherein said ~~at least one collection~~ single groove also runs along said front edge.

4. Brake pad according to claim 3, wherein said ~~collection~~ single groove is C-shaped or E-shaped and runs along said outer edge or said inner edge.

5. Brake pad according to claim 1, wherein said at least one collection groove consists of a plurality of separate grooves including a first groove which runs along said rear edge.

6. Brake pad according to claim 5, wherein said plurality of grooves is two in number.

7. Brake pad according to any one of claims 5 to 6, wherein one of said at least one duct extends between one end of one groove and one end of another groove among the plurality of grooves.