Claims

[Claim 1] A brake pad (18), the pad (18) comprising a lining (20) made of friction material and having a friction face (22A) intended to come into contact with a rotating element (12), a leading edge (22E), and a trailing edge (22F), the lining being provided with at least one main collection groove (30, 32), the pad (18) further comprising at least one suction hole intended to be in fluid communication with the at least one main collection groove (30, 32), the at least one suction hole also being intended to be connected to a negative-pressure source, wherein the at least one main collection groove (30, 32) comprises a first portion (34) that is open on the friction face and a second portion (36) that is covered by friction material of the friction face (22A).

[Claim 2] Brake pad (18) according to claim 1, wherein the friction face (22A) comprises a chamfered edge (22C) extending between the leading edge (22E) and the trailing edge (22F), the second portion (36) of the at least one main collection groove (30, 32) being located at least partially beneath the chamfered edge (22C).

[Claim 3] Brake pad (18) according to claim 1, wherein the at least one main collection groove comprises a first main collection groove (30) located near the leading edge (22E) and a second main collection groove (32) located near the trailing edge (22F).

[Claim 4] Brake pad (18) according to claim 3, wherein a lengthwise dimension of the first main collection groove (30) extends substantially parallel to the leading edge (22E), and a lengthwise dimension of the second main collection groove (32) extends substantially parallel to the trailing edge (22F).

[Claim 5] Brake pad (18) according to claim 3 , further comprising a secondary collection groove (38) located between the first main collection groove (30) and the second main collection groove (32), the secondary collection groove (38) being at least partially open on the friction face (22A).

[Claim 6] Brake pad (18) according to claim 5, wherein the secondary collection groove (38) comprises a first portion that is open on the friction face (22A) and a second portion that is covered by friction material of the friction face (22A).

[Claim 7] Brake pad (18) according to claim 5, wherein the secondary collection groove (38) is fluidly connected to the first main collection groove (30) and to the second main collection groove (32).

[Claim 8] Brake pad (18) according to claim 5, further comprising a first transverse collection groove (40) fluidly connecting the first main collection groove (30) to the secondary collection groove (38), and a second transverse collection groove (42) fluidly connecting the second main collection groove (32) to the secondary collection groove (38).

[Claim 9] Brake pad (18) according to claim 8, wherein the first transverse collection groove (40) is at least partially open on the friction face (22A) and extends obliquely between the first main collection groove (30) and the secondary collection groove (38), and the second transverse collection groove (42) is at least partially open on the friction face (22A) and extends obliquely between the second main collection groove (32) and the secondary collection groove (38).

[Claim 10] Brake pad (18) according to claim 7 , comprising a single suction hole with its mouth being located in one among: the secondary collection groove, the first main collection groove, and the second main collection groove.

[Claim 11] Brake pad (18) according to claim 3, wherein a depthwise dimension of the first main collection groove (30) is not parallel to the leading edge (22E), and a depthwise dimension of the second main collection groove (32) is not parallel to the trailing edge (22F).