

## TITLE OF INVENTION

### SYSTEM FOR CAPTURING RAILWAY DISC BRAKE PARTICLES WITH SEALING BUSHING AND RETURN MECHANISM

## ABSTRACT

The invention relates to the field of braking in rolling railway stock. More specifically, the invention relates to a friction assembly (1) for a railway disc brake system, this friction assembly (1) comprising, on the one hand, a brake head (3) comprising an upper face (31) with a receiving slide (5), and a lower face (32), and on the other hand, at least one shoe (2) of friction material and comprising a first face (21) which is the friction face, and a second face (22) provided with a profile member (4) configured to engage with the receiving slide (5), the shoe (2) comprising at least one duct (28) establishing sealed communication between a first space (E1) bordered by the first face (21) and a second space (E2) bordered by the second face (22), the friction assembly (1) further comprising at least one through-hole (38) of central axis A, provided in the brake head (3) and located in line with the at least one duct (28), and at least one connection bushing (8) arranged in the at least one through-hole (38) and forming a connection with the at least one duct (28). The friction assembly (1) comprises a return mechanism (90) which is able to press the at least one connection bushing (8) against the profile member (4).

Figure 2