Claims

1. Elevator brake comprising:

a chassis structure (10),

a moving structure (20) being movable over the chassis structure,

a first element (30) having a first friction surface (31),

a second element (40) having a second friction surface (41),

a controlling and evaluation unit (50),

wherein one of the first element and the second element (30; 40) is movably mounted to the chassis structure (10) and the other of the first element and the second element (40; 30) is mounted to the moving structure (20), wherein the element movably mounted on the chassis structure is arranged to be forced toward the element mounted to the moving structure with the first friction surface (31) toward the second friction surface (41),

wherein at least one (30) of the first element (30) and the second element (40) comprises:

a wearing layer (32) having the friction surface (31),

a magnetic field generating arrangement (35),

a magnetic field sensing arrangement (36),

wherein the controlling and evaluating unit (50) is adapted to drive the magnetic field generating arrangement (35) so as to generate a magnetic flux in the wearing layer (32), and the controlling and evaluating unit (50) is adapted to determine a condition of the wearing layer based on a signal received from the magnetic field sensing arrangement (36) wherein the condition of a wearing layer consists of the distance from the wearing layer to the opposing friction surface.