

Abstract

The invention relates to a speed monitoring device (41) for measuring a rotational frequency or rotational speed of a main drive shaft (27) of a passenger transportation system (1). For this purpose, said speed monitoring device comprises at least one rotational speed sensor (43) having an input shaft (45), a pinion (47), and a tapping device (49) which is configured in such a way that it can be arranged on a shaft casing surface (39) of the main drive shaft (27) of a passenger transportation system (1), the rotational frequency of which is to be measured. Furthermore, there is also a bracket (61) for attaching the rotational speed sensor (43) and the pinion (47) in a stationary position relative to an axis of rotation of the tapping device (49), the tapping device (49) having a gearing (53) which can be coupled to the pinion (47) in a rotation-transmitting manner, and the pinion (47) being rotatably mounted in the bracket (61) at two bearing areas (55, 57).

(Fig. 1)