

Gear with integral overcouple protection

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Descriptive abstract

The present invention relates to a pinion (20) being integral with a rotatably mounted shaft (201) in a support (100) by means of a cleavable element (40, 50) arranged to disengage the pinion (20) from the shaft (201) in case of an overcouple between the pinion (20) and the shaft (201). A guiding bearing (80, 90), pending between the pinion (20) and the shaft (201), is arranged to rotatably guide the pinion (20) around the shaft (201), in case of a disengagement of the pinion (20) from the shaft (201). In a turbomachine, a gear box comprising such a gear allows the driving of auxiliary machines in case of a breakdown of a shaft in the gear box.

Figure for the abstract : Fig. 2

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