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(54) Title: METHOD FOR CHECKING THE PRESENCE OF A ROTATING ELEMENT IN A MACHINE TOOL

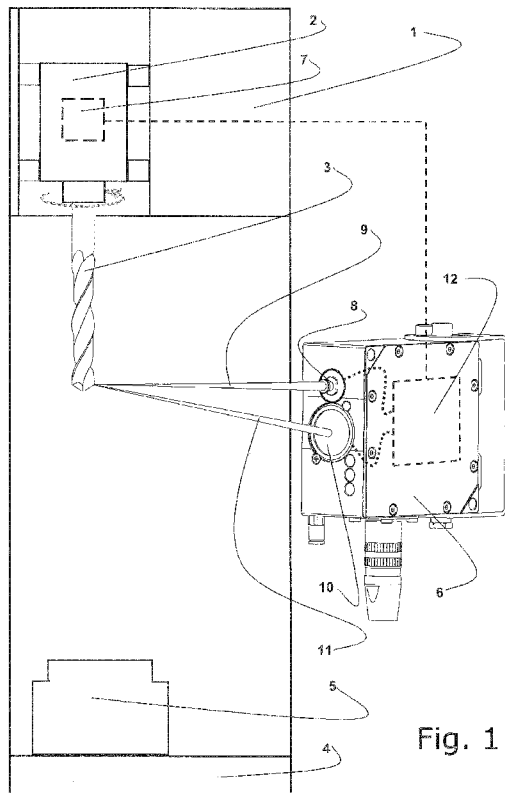


Fig. 1

(57) Abstract: Checking method and apparatus for checking the presence of a rotating element (3) at a known or determinable rotational frequency (RF); an emitter (8) directs a main electromagnetic radiation (9) towards the rotating element (3); a receiver (10) receives a reflected electromagnetic radiation (11) which has been reflected by the rotating element (3); and a processing unit (12) samples the reflected electromagnetic radiation (11) to determine a rough signal (S) to analyze, analyzes in the frequency domain the rough signal (S) to check whether the rough signal (S) includes a periodicity with a frequency corresponding to the rotational frequency (RF) of the rotating element (3), and determines that the rotating element (3) is actually present if the rough signal (S) includes a periodicity with a frequency corresponding to the rotational frequency (RF) of the rotating element (3).



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