

METHOD FOR MANUFACTURING METAL FIBERS, MORE PARTICULARLY STEEL FIBERS

Abstract

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The method is used to manufacture metal fibers, more particularly steel fibers, from strip-shaped flat material, wherein the metal fibers have a substantially rectangular cross-section, and wherein at least one of the wider fiber lateral surfaces, preferably both of the wider fiber lateral surfaces, is provided with at least one V-shaped anchor notch running in the fiber longitudinal direction. First, a material matched to the strength required for the metal fibers when they are used later on is used as the metal strip. In a first production line the metal strip, in the form of a coil, is fed to a straightening and transporting unit (3) by a driven and controlled uncoiler (1). Downstream of a crop shear (4) which forms the start of the strip, the metal strip is fed to a profiling roll (6), which consists of an upper roll and a lower roll and is in the form of a rolling tool. The profiling roll introduces anchor notches and fracture notches. Subsequently, the metal strip passes through a combined scoring and straightening unit (7) for scoring or leveling the anchors in the fracture notches by means of one or more scoring roller pairs, and the metal strip is finally wound as a coil again by a coiling device (8). Thereafter, the last process step of the fiber manufacture is carried out at a longitudinal and transverse dividing unit.

[Fig. 1a and Fig. 1b]