Claims

1. A flat key (1) for a cylinder lock, comprising
   a. at least one encoded lateral surface (23) running along the longitudinal extension of the flat key (1) and having control points arranged along the longitudinal extension, wherein
   b. at least one incision milling (6) having a first depth substantially normal to the lateral surface (23) is provided at at least a control point,

   wherein
   c. a recess (7) having a second depth substantially normal to the lateral surface (23) is provided at least in the region of this control point, wherein
   d. the incision milling (6) and the recess (7) are arranged offset to each other transversely to the longitudinal extension of the flat key (1), and wherein
   e. the second depth is smaller than, preferably at most half as large as, the first depth, characterized in that
   f. the incision milling (6) has a circular arc-shaped guide surface (11) and the recess (7) has a stop (8) with a steep edge.

2. The flat key (1) according to claim 1, characterized in that the lateral surface (23) is a narrow side of the flat key (1).

3. The flat key (1) according to claim 1, characterized in that the lateral surface (23) is a broad side of the flat key (1).

4. The flat key (1) according to one of claims 1 to 3, characterized in that the incision milling (6) is narrower than the lateral surface (23).

5. The flat key (1) according to claim 4, characterized in that the incision milling (6) has an extension transverse to the longitudinal extension of the flat key of preferably one third of the extension of the lateral surface (23).

6. The flat key (1) according to one of claims 1 to 5, characterized in that the incision milling (6) has a substantially circular arc-shaped cross section and forms an internal, substantially circular arc-shaped guide surface (11).

7. The flat key (1) according to one of claims 1 to 6, characterized in that the recess (7) has a base that is substantially parallel to the lateral surface (23).

8. The flat key (1) according to one of claims 1 to 7, characterized in that a stop (8) is formed between the lateral surface (23) and the recess (7), or the lateral surface (23) merges into the recess (7) via a stop (8).

9. The flat key (1) according to claim 8, characterized in that the stop (8) has a side wall (24) which is arranged at an angle of 60° to 90°, preferably 75° to 90°, more preferably 90°, to the lateral surface (23).

10. The flat key (1) according to one of claims 1 to 9, characterized in that at least one ferromagnetic element (10) is provided at at least one control point for applying an attractive force on at least one core pin (4) of the cylinder lock.

11. The flat key (1) according to one of claims 1 to 10, characterized in that a ridge (17) is provided between the incision milling (6) and the recess (7) for guiding a core pin (4) of a cylinder lock.