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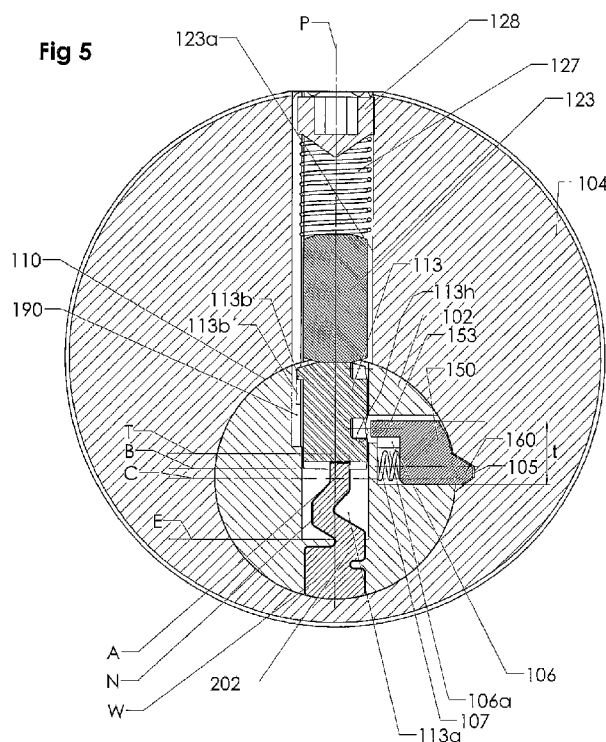
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(54) Title: CYLINDER LOCK AND KEY WITH SIDE BAR



(57) Abstract: A cylinder lock and key combination is disclosed, including a cylinder lock (100), comprising a housing (104) accommodating a rotatable key plug (102), said key plug having a keyway (101) for receiving a key blade (202). A row of tumbler pins (111, ..., 116) are arranged in corresponding cylindrical chambers (111a, ..., 116a) in the key plug for engagement with coded V-cut bittings (211, ..., 216) of an associated key. A longitudinal side bar (150) is slidingly journaled for transversal movement in the key plug. The side bar also has a row of inner projecting lugs (151, ..., 156) each selectively registering with one or more recesses (111h, ..., 116h) in the tumbler pins. A key (200) is provided with coded V-cut bittings (211, ..., 216) each standing at a respective angle and being located at a respective vertical level. The row of inner projecting lugs (151, ..., 156) of the side bar (150) is located above the top biting level (B) of the key blade, and the tumbler pins (111, ..., 116) are configured so that each of the pin recesses is located in a cylindrical outer surface of the tumbler pin and is covered by a cylindrical wall part of an associated one of said cylindrical chambers (111a, ..., 116a), without communicating downwardly with the keyway. In this way, each pin recess is concealed and invisible from the inside of said keyway, even when the keyway is empty. Thus, the lock will be more secure than prior art locks of this kind. The invention also relates to a side bar and a key.



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