

Title (en)

HINGE FOR DOORS AND WINDOWS, ESPECIALLY FOOD INDUSTRY SWINGING DOORS

Title (de)

SCHARNIER FÜR TÜREN UND FENSTER, INSBESONDERE FÜR PENDELTÜREN DER LEBENSMITTELINDUSTRIE

Title (fr)

CHARNIERE POUR PORTES ET FENETRES, EN PARTICULIER POUR DES PORTES BATTANTES DANS LES INDUSTRIES ALIMENTAIRES

Publication

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Application

**EP 04735276 A 20040528**

Priority

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Abstract (en)

[origin: WO2004106677A1] The invention relates to a hinge for doors and windows, especially food industry swinging doors, which has a house (3) receiving the wing (2) of the door and a base (4) attached to the surface of the case (1) of the door facing the wing (2), which base (4) contains an opening (17) designed for guiding a pin (18) connecting the wing (2) and the case (1). In the area of the end of the pin (18) guided in the house (3) through the opening (17) there is a connecting element, and the house (3) is connected to the pin (18) by a bolt (13) guided through the connecting element. On the side of the house (3) facing the base (4) there is a sliding-tilting head (10), which contains curved lateral surfaces (26) fitting the base (4) when turning the wing (2), and which can be turned against the force of the spring (23) situated in the case (1). The essence of the invention is that sliding inserts (15, 16) made of a material resistant to wear and catches, preferably plastic, for example Teflon, are built in the base 4 at places getting in contact with the slidingtilting head (10) in the course of rotating the wing (2). The pin (18) has a threaded part (18b) in the area of the end of the pin (18) opposite the connecting element, preferably connecting sleeve (21), and it has a preferably smooth part (18a) starting from the connecting element, surrounded at least partly by a cylindrical slide insert (19) the position of which is fixed in relation to the base (4), allowing the longitudinal back and forth movement of the pin (18) inside it, and by a sleeve (20) fitting to it. The spring (23) is situated around the part of the pin (18) inside the case (1), supported at its two ends.

IPC 8 full level

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