

Title (en)
ELECTRONIC ORGAN KEYBOARD WITH PIANO EFFECT

Publication
EP 0384120 A3 19920520 (DE)

Application
EP 90100977 A 19900118

Priority
DE 3905646 A 19890224

Abstract (en)
[origin: EP0384120A2] In a keyboard for an electronic organ with a piano effect, each key (1) is supported pivotably about a horizontal axis of rotation (2). The key (1), when actuated, presses via a plunger (4) attached to it against a cam piece (14) on a reaction lever (9) which can be pivoted about a second horizontal axis of rotation (10), so that this reaction lever, moving along the cam piece (14) is pivoted by the plunger (4) from a first into a second end position, initially against a large and then against a smaller reaction force. During this process, the large reaction force is caused by the acceleration of an additional mass (13) on the reaction lever (9) and the smaller force is caused by an increase in the distance of the contact point of the plunger (4) on the cam piece (14) from the second axis of rotation (10), due to the moving along on the cam piece (14). <??>To achieve a defined triggering point at which the plunger (4) begins to slip through on the cam piece (14), when the key (1) is not actuated the distance of the contact point of the plunger (4) on the cam piece (14) from the key (1) is greater than that of the key (1) from the second axis of rotation (10), the plunger (4) being in contact only with the cam piece (14) and being rigidly connected to the key (1). <IMAGE>

IPC 1-7
G10C 3/12; **G10H 1/34**

IPC 8 full level
G10C 3/12 (2006.01); **G10H 1/34** (2006.01)

CPC (source: EP KR US)
G10C 3/12 (2013.01 - EP KR US); **G10H 1/346** (2013.01 - EP US)

Citation (search report)

- [A] US 4667563 A 19870526 - WAKUDA KATSUMI [JP], et al
- [A] DE 51412 C
- [A] DE 44061 C
- [AD] DE 3601892 A1 19870730 - FRANZ REINHARD [DE]
- [AD] EP 0270966 A2 19880615 - REINHARD FRANZ [DE]

Cited by
FR2731292A1; EP2169661A1; US8158876B2; WO9627868A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0384120 A2 19900829; **EP 0384120 A3 19920520**; **EP 0384120 B1 19980325**; AT E164467 T1 19980415; DE 3905646 C1 19900802; DE 59010816 D1 19980430; DK 0384120 T3 19981221; ES 2116968 T3 19980801; KR 900013450 A 19900905; KR 940003152 B1 19940415; US 4993305 A 19910219

DOCDB simple family (application)
EP 90100977 A 19900118; AT 90100977 T 19900118; DE 3905646 A 19890224; DE 59010816 T 19900118; DK 90100977 T 19900118; ES 90100977 T 19900118; KR 900002387 A 19900224; US 48486690 A 19900223