Title (en)
   LOCK DEFROSTER

Publication
   EP 0003494 B1 19810121 (DE)

Application
   EP 78810018 A 19781013

Priority
   • FI 773109 A 19771020
   • FI 773509 A 19771121

Abstract (en)
   [origin: US4247753A] A battery operated portable thawing device for frozen locks has an electrically heated thawing stick sized for insertion into the key hole of a frozen lock. The stick is thinner than the lock key and comprises a hollow metal body inside which is located a thin resistance heating wire. The resistance wire is located between the middle and the end of the stick inserted into the keyhole in a relatively short length (20-30%) of the thawing stick. For use, the stick is slidable out of a protective housing adapted to be gripped in the hand. The housing carries a battery for energizing the stick and a light bulb for illuminating the keyhole. The metal body of the stick serves as one terminal for supplying current to the resistance wire. The circuit between the battery and resistance wire made automatically made when the stick is moved out of the housing for use and broken when the stick is returned into the housing.

IPC 1-7
   E05B 17/00

IPC 8 full level
   E05B 17/00 (2006.01)

CPC (source: EP US)
   E05B 17/0016 (2013.01 - EP US); Y10T 70/80 (2015.04 - EP US)

Cited by
   CN107565647A; FR2608346A1; US2021214971A1

Designated contracting state (EPC)
   BE CH DE FR GB LU NL SE

DOCDB simple family (publication)
   EP 0003494 A1 19790822; **EP 0003494 B1 19810121**; AT 357048 B 19800610; AT A743978 A 19791015; CA 1128591 A 19820727;
   CH 612722 A5 19790815; DE 2860361 D1 19810312; DK 151346 B 19871123; DK 151346 C 19880509; DK 464078 A 19790421;
   HK 3682 A 19820212; NO 147686 B 19830214; NO 147686 C 19830525; NO 783502 L 19790423; US 4247753 A 19810127;
   US 4303825 A 19811201

DOCDB simple family (application)
   EP 78810018 A 19781013; AT 743978 A 19781017; CA 316539 A 19781120; CH 1076078 A 19781018; DE 2860361 T 19781013;
   DK 464078 A 19781018; HK 3682 A 19820204; NO 783502 A 19781016; US 5734979 A 19790713; US 95183478 A 19781016