

Title (en)
WIPER LEVER

Title (de)
WISCHHEBEL

Title (fr)
LEVIER D'ESSUIE-GLACE

Publication
EP 4149801 A1 20230322 (DE)

Application
EP 21719566 A 20210413

Priority
• DE 202020102660 U 20200512
• EP 2021059539 W 20210413

Abstract (en)
[origin: WO2021228479A1] The invention relates to a wiper lever (10) for cleaning a vehicle pane by means of a movement in a first and second direction. The wiper lever comprises a wiper blade (12), a wiper arm (14), an adapter (16) for securing the wiper blade (12) to the wiper arm (14), and a hydraulic system (18) which conducts a liquid from a vehicle to the wiper blade (12) via the wiper arm (14) in order to eject the liquid via nozzles (20) on the wiper blade (12). The wiper lever has at least one nozzle (20) which is oriented in the first direction (1) and one nozzle (20) which is oriented in the second direction. According to the invention, a first valve (221) for the first direction is positioned closer to the nozzles (20) in the flow direction (3) of the liquid than a second valve (222) for the second direction (2).

IPC 8 full level
B60S 1/52 (2006.01); **B60S 1/48** (2006.01)

CPC (source: EP US)
B60S 1/3415 (2013.01 - US); **B60S 1/482** (2013.01 - EP US); **B60S 1/524** (2013.01 - EP US); **B60S 1/3415** (2013.01 - EP);
B60S 1/3862 (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 202020102660 U1 20200522; CN 115461256 A 20221209; EP 4149801 A1 20230322; FR 3110125 A1 20211119; FR 3110125 B1 20230721;
US 12024134 B2 20240702; US 2023174021 A1 20230608; WO 2021228479 A1 20211118

DOCDB simple family (application)
DE 202020102660 U 20200512; CN 202180034852 A 20210413; EP 2021059539 W 20210413; EP 21719566 A 20210413;
FR 2104670 A 20210504; US 202117924178 A 20210413