

Title (en)
LOADER AND UNLOADER FOR WORK PIECES WITH A SINGLE DRIVING MOTOR

Publication
EP 0114774 B1 19860326 (FR)

Application
EP 84400114 A 19840120

Priority
FR 8301118 A 19830120

Abstract (en)
[origin: EP0114774A2] 1. Piece extracting loader comprising a gripping device adapted for gripping a piece, a single motor mounted fixedly on a frame for moving the gripping device, a first lever (16) fixed to a shaft (4) interlocked for rotation with the shaft of the motor, a second lever (22) a first end of which is pivotally mounted to the first lever and to the second end of which the gripping device (25) is pivoted, means connecting the two levers (16) and (22) together so that the pivoting movement of the first lever (16) causes a pivoting movement of the second lever (22) and means so that the gripping device (25) remains parallel to itself when the two levers pivot, characterized in that the two levers (16) and (22) are connected together by means comprising a sun gear (17) mounted for rotation about the shaft (4) carrying the first lever (16), a planet gear (18) mounted freely rotating on the first lever (16), an end pinion (19) whose axis is interlocked for rotation with a second lever (22) and which is also mounted freely rotating on the first one, and cam means connecting the sun gear (17) to the shaft of the motor.

IPC 1-7
B21D 43/10

IPC 8 full level
B21D 43/10 (2006.01)

CPC (source: EP)
B21D 43/105 (2013.01)

Cited by
EP0435417A1; US5106258A; US7484922B2; KR200465033Y1

Designated contracting state (EPC)
DE GB IT SE

DOCDB simple family (publication)
EP 0114774 A2 19840801; EP 0114774 A3 19840815; EP 0114774 B1 19860326; DE 3460057 D1 19860430; FR 2539661 A1 19840727; FR 2539661 B1 19860704

DOCDB simple family (application)
EP 84400114 A 19840120; DE 3460057 T 19840120; FR 8301118 A 19830120