

Title (en)  
PUNCHING PRESS

Title (de)  
STANZPRESSE

Title (fr)  
PRESSE À ESTAMPER

Publication  
**EP 3938196 A1 20220119 (DE)**

Application  
**EP 19718349 A 20190416**

Priority  
EP 2019059833 W 20190416

Abstract (en)  
[origin: WO2020211931A1] The invention relates to a punching press with a crank drive or eccentric drive, comprising a crankshaft or eccentric shaft (1a, 1b) and an active connecting rod (9a, 9b) for producing a reciprocating motion of the ram (13). The punching press also comprises counterweights (2a, 2b) for compensating for the vertical and horizontal inertial forces and is designed such that the horizontal driving motions that are necessary for the horizontal mass balancing, are taken up directly on the crankshaft or eccentric shaft (1a, 1b), specifically preferably laterally on the crankshaft or eccentric shaft (1a, 1b).

IPC 8 full level  
**B30B 1/06** (2006.01); **B30B 15/00** (2006.01)

CPC (source: EP US)  
**B30B 1/06** (2013.01 - EP US); **B30B 15/0064** (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

DOCDB simple family (publication)  
**WO 2020211931 A1 20201022**; EP 3938196 A1 20220119; EP 3938196 B1 20231213; ES 2970790 T3 20240530; JP 2022532481 A 20220715; JP 7377889 B2 20231110; US 2022212431 A1 20220707

DOCDB simple family (application)  
**EP 2019059833 W 20190416**; EP 19718349 A 20190416; ES 19718349 T 20190416; JP 2021561691 A 20190416; US 201917603813 A 20190416