

Title (en)  
Improved machine for producing expanded sheet metal.

Title (de)  
Einrichtung zur Herstellung von Streckmetall.

Title (fr)  
Machine pour fabriquer du métal déployé.

Publication  
**EP 0345488 A2 19891213 (EN)**

Application  
**EP 89108708 A 19890516**

Priority  
IT 294188 A 19880610

Abstract (en)  
The improved machine comprises a ram operated in such a manner as to undergo reciprocating movement away from and towards the sheet metal to be expanded. The ram carries a toothed blade driven with reciprocating movement in a direction perpendicular to that of the ram and acting on the sheet metal in cooperation with a backing blade able to retract against the action of elastic means. At its ends the ram is connected to rods. These rods are slidingly guided in fixed supports. The rods are connected together in pairs by a cross-member. The rods of pneumatic cylinders operating as pneumatic springs act on the cross-member.

IPC 1-7  
**B21D 31/04**

IPC 8 full level  
**B21D 31/04** (2006.01)

CPC (source: EP)  
**B21D 31/043** (2013.01)

Designated contracting state (EPC)  
ES FR GB

DOCDB simple family (publication)  
**EP 0345488 A2 19891213; EP 0345488 A3 19901017**; IT 1220268 B 19900606; IT 8802941 A0 19880610

DOCDB simple family (application)  
**EP 89108708 A 19890516**; IT 294188 A 19880610