

Title (en)

Air transfer system for a shell press.

Title (de)

Luft-Transportsystem für eine Deckelpresse.

Title (fr)

Système de transport à air pour une presse de couvercle.

Publication

EP 0106435 A2 19840425 (EN)

Application

EP 83303967 A 19830707

Priority

US 43404682 A 19821013

Abstract (en)

An air transfer system for a shell press is provided which air conveys a blanked and formed shell (66) from a blanking and forming die station (14) in the shell press to a curling die station (16) in the same shell press. The air transfer system further provides for the blanked and formed part to be air conveyed within the curling die, and after the shell is curled within the die, provides for the curled shell to be air ejected from the curling die for subsequent fluid conveyance therefrom. A guide track (70) extending between the die stations is just slightly wider than the diameter of the shell being conveyed and the fluid conveyance is provided by a hollow tube (72) disposed in the upwardly facing surface of the guide track. The hollow tube has a diameter much smaller than the width of the guide track and shell diameter and further has a plurality of shaped openings (74) which provide perpendicular and parallel air velocity components relative to the guide track when high pressure air is provided through the hollow tube. The curling station includes an air escapement mechanism for conveying the part through it.

IPC 1-7

B21D 51/44; **B21D 43/18**; **B21D 51/26**

IPC 8 full level

B21D 43/05 (2006.01); **B21D 43/18** (2006.01); **B21D 45/04** (2006.01); **B21D 51/26** (2006.01); **B21D 51/44** (2006.01); **B65G 51/02** (2006.01)

CPC (source: EP)

B21D 43/18 (2013.01); **B21D 51/44** (2013.01)

Cited by

EP0280286A3; EP0356975A3; CN113579037A; FR2605910A1; BE1003541A3; EP0149184B1; EP0117343B1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0106435 A2 19840425; **EP 0106435 A3 19840718**; **EP 0106435 B1 19870325**; CA 1226764 A 19870915; DE 3370451 D1 19870430; JP S5994540 A 19840531; JP S6354460 B2 19881028

DOCDB simple family (application)

EP 83303967 A 19830707; CA 430981 A 19830622; DE 3370451 T 19830707; JP 19000683 A 19831013