

Title (en)  
ROBOTIC CO2 TIRE MOLD CLEANING

Title (de)  
Reinigung von Reifenvulkanisierungsformen mit CO2 mittels Roboters

Title (fr)  
NETTOYAGE DE MOULES A PNEUS AU CO2 PAR DISPOSITIF ROBOTIQUE

Publication  
**EP 0921905 A1 19990616 (EN)**

Application  
**EP 96928964 A 19960822**

Priority  
US 9613521 W 19960822

Abstract (en)  
[origin: WO9807548A1] A method and apparatus for cleaning molds, particularly tire molds (16) using pellets of a frozen gas and a robotically controlled apparatus are disclosed. A heated mold (16) is conveyed into an insulated and sound-proof enclosure (34) where a robot arm with a nozzle (52) mounted on the robot arm directs frozen CO2 pellets against the mold surface to be cleaned. The mold (16) is rotated on a rotary table (40) to clean the entire mold surface. The mold (16) is then removed from the enclosure (34) on a conveyor (82). The preferred frozen gas is CO2 because it is non-abrasive to the tire mold surfaces and also cleans the microvents of the tire mold (16).

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