

Title (en)  
BOX NOZZLE FOR LADLES AND THE LIKE, WITH LATERAL PRESSURE SPRINGS

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Application  
**EP 91830071 A 19910304**

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Abstract (en)  
[origin: EP0445087A2] The invention concerns a box nozzle for ladles and the like, of the type which includes: (a) - a fixed upper metal plate (10) attached to the bottom of the ladle; (b) - a fixed lower metal plate (20), referred to as "the cover", supported by the latter by means of bolts (13) and tiltable and dismountable from the latter for maintenance of the box nozzle; (c) - a third metal plate (60) which runs between the previous two, through appropriate controls, called "the slide" for short; (d) - a first refractory plate (30) with an orifice, held in a fixed position by the fixed upper metal plate (10); (e) - a second refractory plate (70) with an orifice, held by the slide (60) and hence sliding with the latter. According to the invention, the box nozzle also includes: (f) - a tilting frame (50) inserted between said slide (60) and said cover (20), as well as: (g) - spring assemblies (40) positioned between said cover (20) and said tilting frame (50), located along the long sides of the cover (20).

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IPC 8 full level  
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**B22D 41/40** (2013.01)

Citation (search report)  
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• [Y] JAPS, Japanese Abstracts, Japanese Patent OfficeTokio, JP Abstract date:14-01-87 &JP-A-61/189867 (TCK) 23- August-86  
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