

Title (en)

MACHINE FOR DECORATING FLEXIBLE LAMINAR SURFACES USED TO COVER OBJECTS

Title (de)

MASCHINE ZUM DEKORIEREN VON FLEXIBELN FLÄCHEN ZUM ABDECKEN VON OBJEKTEN

Title (fr)

MACHINE DE DÉCORATION DE SURFACES LAMINAIRES FLEXIBLES UTILISÉES COMME REVÊTEMENT D'OBJETS

Publication

**EP 4091722 A1 20221123 (EN)**

Application

**EP 22170507 A 20220428**

Priority

IT 202100010805 A 20210429

Abstract (en)

A machine (1) for decorating flexible laminar surfaces (P) comprising a bearing frame (2) resting on a reference surface (S), a first coating unit (3) comprising a first coating cylinder (4), coupled to the bearing frame (2), provided with an outer wall (4a) engraved with a first patterned design (5) and operatively connected to first motor means (6) which rotate the first coating cylinder (4) about a first transverse axis ( $X_{1}$ ) to deposit by pressure, while the first coating cylinder (4) rotates about the first transverse axis ( $X_{1}$ ), a first liquid product ( $L_{1}$ ) on an upper face ( $P_{s}$ ) of flexible laminar surfaces (P) advancing along a preset direction (F), so that said first patterned design (5) made of the first liquid product ( $L_{1}$ ) is imprinted on the upper face ( $P_{s}$ ) of the flexible laminar surfaces (P). In detail, the machine (1) includes a second coating unit (7) which comprises at least a second coating cylinder (8) coupled to the bearing frame (2), operatively arranged downstream of the first coating cylinder (4) from which it is separated by a predetermined distance (D), measured along the preset direction (F), provided with an outer wall (8a) engraved with a second patterned design (9) and operatively connected to second motor means (10) which rotate the second coating cylinder (8) about a second transverse axis ( $X_{2}$ ), parallel to said first axis ( $X_{1}$ ), to deposit by pressure and after the first coating cylinder (4), while the second coating cylinder (8) rotates about the second transverse axis ( $X_{2}$ ), a second liquid product ( $L_{2}$ ), different in color from the first liquid product ( $L_{1}$ ), on the upper face ( $P_{s}$ ) of the flexible laminar surfaces (P) advancing along the preset direction (F) on a conveyor belt (11) below the coating cylinders (4, 8), so that the second patterned design (9) made of the second liquid product ( $L_{2}$ ) is imprinted on the upper face ( $P_{s}$ ) of the flexible laminar surfaces (P) in a given combination with the first patterned design (5) already imprinted on the upper face ( $P_{s}$ ).

IPC 8 full level

**B05C 1/02** (2006.01); **B05C 1/08** (2006.01); **B05C 9/06** (2006.01); **B05D 5/06** (2006.01); **B41F 17/22** (2006.01); **C14B 1/56** (2006.01)

CPC (source: EP)

**B05C 1/02** (2013.01); **B05C 1/0808** (2013.01); **B05C 9/06** (2013.01); **B41F 9/02** (2013.01); **B41F 17/14** (2013.01); **C14B 1/56** (2013.01); **B05D 1/28** (2013.01); **B05D 5/06** (2013.01); **B05D 2203/24** (2013.01)

Citation (applicant)

EP 2251205 A2 20101117 - BARBERAN LATORRE JESUS FRANCISCO [ES]

Citation (search report)

- [XAI] EP 2251205 A2 20101117 - BARBERAN LATORRE JESUS FRANCISCO [ES]
- [X] IT 9041675 A1 19920210 - GE MA TA SPA
- [X] US 5048455 A 19910917 - GAVEND GERARD [FR], et al

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4091722 A1 20221123**; IT 202100010805 A1 20221029

DOCDB simple family (application)

**EP 22170507 A 20220428**; IT 202100010805 A 20210429