

Title (en)
FILM WHICH CAN BE INSCRIBED BY A LASER BEAM

Title (de)
MIT EINEM LASERSTRAHL BESCHRIFTBARE FOLIE

Title (fr)
FILM ACCESSIBLE EN ECRITURE PAR FAISCEAU LASER

Publication
EP 1324887 B1 20041222 (DE)

Application
EP 01976309 A 20011012

Priority
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Abstract (en)
[origin: US2004048172A1] According to the invention, an ablatable metallic layer (3) is arranged below the translucent protective layer (2) which is dyed throughout. Said metallic layer is connected to the contrastive coloured layer by a transparent connecting layer (9), the coloured layer being applied to a plastic film (10). The plastic film (10) comprises a self-adhesive layer (7) on the lower side thereof, the self-adhesive layer being covered on its lower side by a carrier material (8) which represents part of a continuous strip and which is covered in such a way that it rejects adhesive. If the film laminate has been stamped beforehand into individual labels or the like, said labels can be individually detached from the carrier material (8) and can be stuck on many different objects. Surface areas (11a, 11b, 11c, 11d) of the metallic layer (3) representing letters or symbols can be ablated by means of a laser beam (1a, 1b, 1c, 1d). Said surface areas then appear in a mixed colour resulting from the colour of the contrastive layer (5) by means of the colour filter effect of the protective layer (2). The areas which are not ablated appear in a colour resulting from the colour of the metallisation (3) and the colour filter effect of the protective layer (2).

IPC 1-7
B41M 5/24

IPC 8 full level
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CPC (source: EP US)
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Cited by
CN109313865A; US11386812B2

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US 2004048172 A1 20040311; US 6815147 B2 20041109; AT E285334 T1 20050115; DE 20017501 U1 20001214; DE 50104903 D1 20050127; EP 1324887 A1 20030709; EP 1324887 B1 20041222; ES 2233697 T3 20050616; WO 0230677 A1 20020418

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