

ABSTRACT
PVD coating mask

In a mask for the selective gold coating of CD substrates the mask (2) consists of a mask base body (3) and a protective coating applied thereto. The protective coating preferably consists of a single-layer coating (14a, 14b, 14d, 14f) composed of one of the elements platinum, nickel or rhodium in a layer thickness of 0.5 μm to 10 μm . An economical, particularly effective protective coating (11a, b, c) consists of two coating layers (14c, 17; 14e, 18; 14f, 19), wherein the first coating layer (14c, 14e, 14g) applied directly to the copper mask base body (3) preferably consists of nickel and the second coating layer applied to the nickel layer consists of either of the elements platinum or rhodium. The individual coating layers are applied to the mask base body 3 either by means of a chemically-acting galvanic process from aqueous solution or by a high-temperature electrolysis process from a salt bath. The gold coating (20) deposited on the protective coating during a PVD coating process is dissolvable from the protective coatings by wetting with an alkali-cyanidic gold stripper solution or by the action of aqua regia, although the mask base body (3) is not chemically attacked and the outer dimensions and contact faces (4, 6) defining the coating configuration, in particular the shaping of their peripheral regions (5, 9), are fully retained even after repeated removal of a gold coating.

Figure 2a of the drawings should accompany the abstract when published.