

Title (en)
Device for producing foam

Title (de)
Vorrichtung zur Herstellung von Schaum

Title (fr)
Dispositif de production de mousse

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EP 1914002 A2 20080423 (FR)

Application
EP 07291242 A 20071011

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Abstract (en)
The device for producing a foam associated with a pump, comprises a first filtering net (1a) disposed through an expulsion conduit (C2a), a second filtering net disposed in a downstream of the first net, and a removable tip extension. The first net is associated with a unit for supplying a flow of air in an upstream of the net with respect to a flow of liquid, and flexible to oscillate when the liquid expelled through the first net to mix the liquid with air and produce the foam. The pump comprises a reservoir containing a foaming liquid, and a pumping unit having a pump activation lever. The device for producing a foam associated with a pump, comprises a first filtering net (1a) disposed through an expulsion conduit (C2a), a second filtering net disposed in a downstream of the first net, and a removable tip extension. The first net is associated with a unit for supplying a flow of air in an upstream of the net with respect to a flow of liquid, and flexible to oscillate when the liquid expelled through the first net to mix the liquid with air and produce the foam. The pump comprises a reservoir containing a foaming liquid, and a pumping unit having a pump activation lever to suction the liquid and expel the liquid through the conduit to a minimum determined speed. The supplying unit comprises a chamber (72a) that leads the air in the conduit, and a passage to supply the air communicated with the external air of the distribution conduit and by which the air is sucked during the passage of liquid expelled by an inlet. The chamber comprises an expulsion opening (52a) laid out into the conduit and closed by the first net, and a peripheral zone connected to a wall of the conduit in an upstream of the opening. The removable tip extension is moved in translation between holding and determining positions respectively to produce a jet of foam. The passage of air is disposed in the extension at the junction of an expulsion head (2). The conduit in the tip has a removable section shrinkable towards the opening. The first net comprises central disc connected to the periphery of the net by thin elastic bands. The second filtering net is flexible and disposed in a downstream of the first net with respect to the flow of the liquid. The first and the second filtering nets are rounded and curved towards the outside. The peripheral zone of the second net is connected to an edge of the opening or to the wall of the conduit.

Abstract (fr)
La présente invention concerne un dispositif de production de mousse associé à une pompe comportant un réservoir (B) contenant du liquide moussant et des moyens (A) de pompage comprenant un levier (C) d'activation du pompage pour aspirer le liquide du réservoir et expulser ce liquide par un conduit (C2a) d'expulsion à une vitesse minimum déterminée, le dispositif de production de mousse produisant une mousse dense et volumineuse pour manipulée à la main notamment grâce à un premier filet (1a) de filtrage, disposé en travers du conduit d'expulsion, le premier filet étant associé à des moyens (72a) d'alimentation par un flux d'air en amont du premier filet, par rapport au sens (S) d'écoulement du liquide, le premier filet étant élastique pour osciller lorsque le liquide expulsé traverse le premier filet pour brasser le liquide avec l'air et produire de la mousse.

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Citation (applicant)
• WO 2004078359 A1 20040916 - AIRSPRAY NV [NL], et al
• US 4603812 A 19860805 - STOESSER PAUL R [US], et al
• EP 0718041 A1 19960626 - CALMAR INC [US]
• US 5816503 A 19981006 - NELSON PHILIP L [US]

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