



Pradnya Niketan Education Society Pune's
**NAGESH KARAJAGI ORCHID COLLEGE OF
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An Autonomous Institute

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(With CGPA 3.32)

Information of Design Registration (Design Patent)

Title: MECHANIZED CLOTH DUSTER

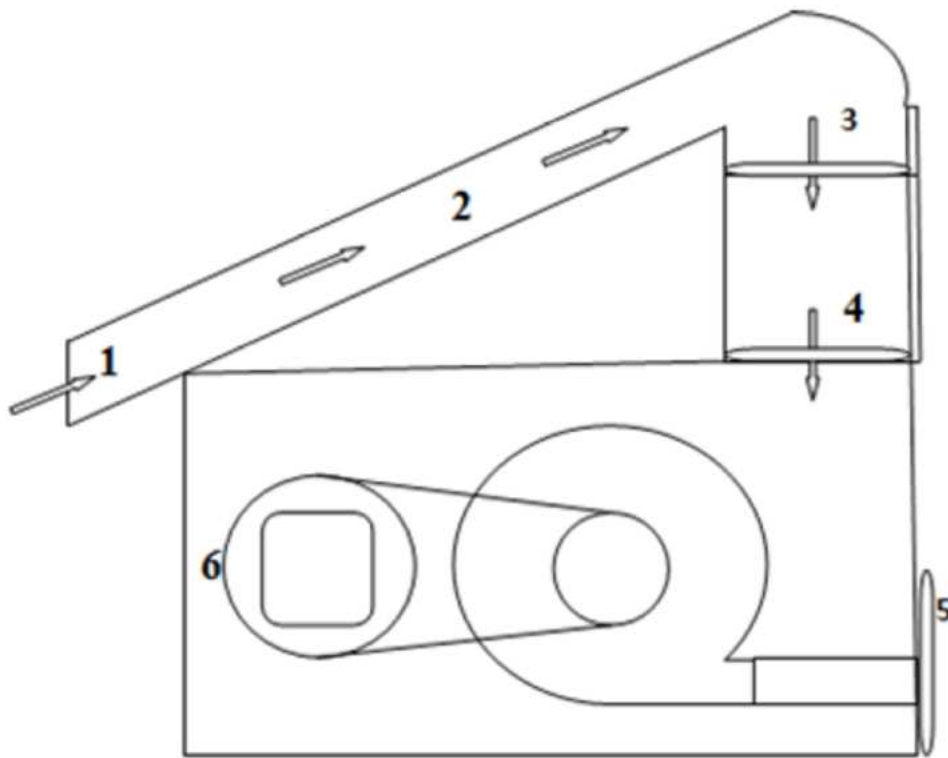
Innovators:

1. Sonage Basgonda Kallappa
2. Kashid Anandrao Shivajirao

Summary:

Disclosed is an apparatus for the process of separation of unwanted material like fine yarn, threads, dust, etc. stuck to the finished cloths. It consists of the embodiment having cloth input(1), air duct(2), cloth output and screen(3), yarn outlet and screen(4), air exit(5), Blower and motor assembly(6), as shown in Fig.1, assembled together to perform desired function of removal of stuck material on the finished cloth. The finished cotton cloth with yarns & cotton threads stuck on it is made to enter through cloth input (1) and held for some time manually. Blower and motor assembly (6) sucks the air through air duct (2). Moving air through air duct (2) gives a pneumatic jerk to the finished cotton cloth held in the path of air. Moving air separates the yarn, cotton threads and dust. These unwanted materials are carried along with air stream through air duct to yarn outlet and screen (4) where these unwanted materials are screened out with the help of screen. Sometimes, due to mistake of workers, the cotton cloth held therein (1), if escaped from hold of the worker and gets carried along with air stream; a provision or an arrangement is made wherein this escaped cotton cloth is arrested at cloth output and screen (3). Unwanted materials will be partially arrested at 3 because the mesh size of 3 is more than mesh size of 4. The jet of high velocity air which is sucked through duct (2) by blower and motor assembly(6), is exhausted through outlet (5). The cotton cloth is held for some time in the stream of high velocity air in the duct (2) manually. When proper separation of yarns & thread is ensured visually, the cloth is taken out from duct.

Drawing (Front View):



Ref.No / /Application No/ 202021032724



पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India
पेटेंट प्रमाण पत्र | Patent Certificate
(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 517801
आवेदन सं. / Application No. : 202021032724
फाइल करने की तारीख / Date of Filing : 30/07/2020
पेटेंटी / Patentee : 1.Sonage Basgonda Kallappa 2.Kashid Anandrao Shivajirao

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में ब्यापकतित *MECHANIZED CLOTH DUSTER* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जुलाई 2020 के तीसरे दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *MECHANIZED CLOTH DUSTER* as disclosed in the above mentioned application for the term of 20 years from the 30th day of July 2020 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 29/02/2024
Date of Grant :

उत्पाद की मंडित
पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जुलाई 2022 के तीसरे दिन को और उसके परवर्त प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 30th day of July 2022 and on the same day in every year thereafter.