CAN MEN MOUNT IN AIR.

How a German Professor Solves the Great Problem.

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Can a man fly? Learned professors of the science of aermantics agree that he

cannot, and a formidable commission of experts appointed by the German government to investigate into the possibilities of nerial unvigation bave flushy and decisively and officially said that it is impossible. Still, an ingenious and observant German of the name of Otto Lilienthal, after a long series of experiments and in face of the decisions of the eminent scientists, has suceceded in proving that a clever man can fly, and fly for considerable distances, too.

Professor Idlienthul, like most men who have solved difficult problems, has gone clear away from the principles to which other men have found limitations. When he decided to fly, in other words, he left on the simple principle favored by the the possibilities afforded by the bull-on entirely not of his calculations. Balloons, said beare crude affairs, dangerous, not to be depended upon, non-dirigible, and clamsy. There is nothing in nature built upon the principle of the bulloon, yet there are grow careless in handling his experimental things in nature which can fly, and fly wings, and perchance fall victim to the much better than the best balloons. Those awful fate which overtook the lamented things are birds. To the birds, then, I will and legendary Icarus, the first rian who go for the model of my flying machine. attempted to fly.

And to the birds he went. From these same birds it was that Professor Islienthal learned the true principles of nerial travigation, which principles be has succeeded to a degree in adapting to the neer of man. He first learned that it is the concave shape of a hird's wing that enables it to soor, rising or falling at will without muscular exertion in the feeth of a high wind. Then he learned that a bird's wing bones are constructed similarly to those in a man's arm. Knowing these things, he built his flying machine, or, to be more currect, his nouring unachine. He unde for himself of light but bupervious corton cloth and split willow wands two humanae wings, twenty-three feet from tip to tip, and a practical, if not highly-ornsmental rudder or tail. He preserved in their construction as hearly as possible the form of a bird's wings and tail, increasing the parabolic curve of the bird's wings to the exact proportionate degree for his larger ones. These wings and the Iail. Weighing in all only twenty-five pounds, are so constructed as to fold up, like the wings of a hat. Having considered them, the professor adjusted them to his arms, took a run along a hillton, and calmly and confidently jumped over the side, spreading his where ar he did so. He soured some distauce, and alighted in safety and comfort. He repeated his experiment many, many times learning how to control lin sporatus, how to change direction, how to rise or descend at will. He improved his wings and tall, and kept on practicing, until now he can soar, for several hundred yards, rise

to a much greater beight than he started from, and fulfil most of the functions of a big hird, save only that of propelling himself in still air and starting his flight from level ground.

Three two things a man is not strong enough to do, the bird possessing much greater strength for its size and weight thun the most muscular man. But what Professor Lilienthal lacks in strangth he has made up in ingenuity, for he has now constructed a little motor, operated by carbonic seid gas, which, while it adds scurcely anything to the weight of his flying apparatus, is capable of developing continuously two horse power, or more than enough energy to work the wings. Indeed, in the first trial the little motor developed too much strength, and broke the wings, putting a stop to further experiments for the time,

If Professor Lillenthal succeeds in perfeeting the great invention, the practicability of which he has already demonstrated, and in making aerial navigation, birds, safe for mankind, he will have achieved a notable triumph over the wonderful forces of nature, as well as the world's greatest scientests. And he seems very likely to succeed, unless he should